Reliability, Made-to-order
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PowerSource, Eaton’s single-site digital customer experience, empowers buyers and sellers of Eaton Hydraulic products across the globe by making it easy to search, spec, and sell in real time, reducing the traditional hydraulics sales cycle by days.

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Search, spec, and sell over 200,000 Eaton Products.

**Literature**
Deliver modernized materials at the speed of businesses worldwide.

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Find equivalent Eaton parts for thousands of competitor parts.

**Videos**
Watch detailed product and online training videos.

**Crimp Specs**
Search and view detailed crimp specs.

**Locator**
Find local and regional Eaton product dealers.

**3D Models**
View, download and share easy-to-use digital models.

**Product Configurators**
Generated customized bills of materials for hose assemblies, actuation, power and motion control products.


The power of PowerSource is now available to all users on any device for easy access with one simple click: www.EatonPowerSource.com
Proven process, powerful performance

With over 100 years of manufacturing expertise, Eaton is one of the largest manufacturers of fluid conveyance products in the world. Our unparalleled leadership in the manufacturing of innovative products for markets around the globe has made us one of the world’s most preferred suppliers of industrial hoses.

Every industrial hose application has its own distinctive needs, whether it’s high or low pressure, fast or slow transfer rates, or materials ranging from air and water to hazardous chemicals. Eaton has an extensive portfolio of industrial hoses to suit a wide array of markets and applications with unique requirements, including chemical, cleaning, steam, and food service, material handling, and many more. And we use a variety of compounds and reinforcements in our proven process to achieve maximum quality and durability while also ensuring utmost flexibility and ease of use.

When safety and performance matter, the industrial hose you choose matters. That’s why more engineers are choosing Eaton.
Delivering major market value

Eaton industrial hose applications

- Air transfer
- Beverage dispensing
- Chemical transfer
- Food transfer
- Hot air blower
- Washdown applications
- LPG transfer
- Nitrogen transfer
- Dry material & bulk transfer
- Mud suction & discharge
- Cement applications
- Oil transfer
- Gasoline dispensing
- Steam transfer
- Pressure wash
- Water suction & discharge
Eaton Industrial hose
Part number nomenclature

A hose part number is composed of several different elements, all combined to make the final number. The following is a diagram of an example hose part number and the elements that go into creating that number.

New Eaton part numbers

- Hose Type: EHA500
- Hose Size: 08
- Hose Color: YW
- Hose Length: M40 = 40 meters
  100 = 100 ft

Old Eaton part numbers

- Hose Type: H0523
- Hose Size: 32
- Hose Color: GN
- Hose Length: M40 = 40 meters
  100 = 100 ft

Hose Type
The hose number is simply the type of hose you wish to order. Hose numbers are found at the top of each page within the hose section of the catalog.

Hose Size
These are two digits after the base hose number. The hose size code follows industry standards. Metric equivalents are found with the hose specification charts on each hose page within the hose section of the catalog.

Hose Length
The hose length is indicated in feet. Metric equivalents are found in the length section of the hose specification charts.
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New Hose Selection
Hose selection worksheet

EATON Industrial Hose MTO Catalog     E-HOIN-BB012-E  2021

Introduction

Eaton recommends using the STAMPED process to aid in determining the correct hose and coupling for your application. This worksheet is designed to help you organize information for determining the best hose for a given application. The questions are based on the hose selection factors described in this catalog. When selecting a hose, always use this worksheet in conjunction with this catalog. Read all instructions concerning the hose you are selecting. If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.

STAMPED process to determine the correct hose and couplings

S - Size (I.D., O.D. and length)
T - Temperature of material conveyed and environmental
A - Application, the conditions of use
M - Material being conveyed, type and concentration
P - Pressure to which the assembly will be exposed
E - Ends; style, type, orientation, attachment methods, etc.
D - Delivery testing, quality, packaging, and delivery requirements

1. Size
Flow (cubic feet per minute) requirements? ____________________________________________
See RMA Water Discharge table.
Hose I.D. requirements given the flow requirements? ___________________________________
Pressure drop? _____________________________________________________________________
Length requirements (excluding hose ends)? ___________________________________________

2. Temperature
Temperature range of material to be transferred?
Min. _______________ Max. _______________ Average ___________________________________
Year-round external environment temperature range? ___________________________________
Cleaning temperature? _______________________________________________________________

3. Application
If the application is new, what service is to be performed? _____________________________

4. Material: Compatibility & Environment
Internal and external environment consideration. Internal environment relates to the material being conveyed. External environment relates to anything originating from outside the hose.
Check all that apply.
☐ Abrasive materials (conveyants and external) ☐ Ozone
☐ Petroleum products (aromatics, aliphatics, etc.) ☐ Acids/caustics
☐ Materials that could cut or gouge hose ☐ Animal fats (oils)
☐ Solvents ☐ Sparking or flames
☐ Cleaning with steam

Material to be transferred? __________________________________________________________
Material concentration (%)? _________________________________________________________
What hose cleaning solution(s) will be used? ___________________________________________

Continued on next page

If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.
Hose selection worksheet - Continued

**Introduction**

Be sure to reference chemical compatibility recommendations in the Chemical Resistance Charts starting on page M-2 through M-12.

If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.

**S - Size**  
(I.D., O.D. and length)

**T - Temperature**  
material conveyed and environmental

**A - Application**  
the conditions of use

**M - Material**  
being conveyed, type and concentration

**P - Pressure**  
to which the assembly will be exposed

**E - Ends**  
style, type, orientation, attachment methods, etc.

**D - Delivery**  
testing, quality, packaging, and delivery requirements

---

**5. Pressure & Suction**

What working pressure is required? ____________________________

Are pressure surges involved in this application? How high? ____________________________

What safety factor is required? ____________________________

Is this a suction application? What vacuum rating is required? ____________________________

---

**6. Ends**

End ____________________________

Material ____________________________

Attachment Method ____________________________

---

**7. Delivery**

Qty. required ______ Date required ______ Pkg. requirements ____________________________

Testing Required - ☐ No ☐ Yes If Yes, Type: ____________________________

Certification Required - ☐ No ☐ Yes If Yes, Type: ____________________________

---

**Special Requirements/Other Information**

**Will the selected hose need to possess any of the following features:**

- Branding information needed on the hose? ____________________________
- Color coding? ____________________________
- Any special designations required by agencies or associations? ____________________________
- Will any regulatory agency approvals be required? If yes, which one(s)? ____________________________
- Non-conductive rubber needed to prevent transmittal of electricity? ____________________________
- Static wire or static-dissipating tube to prevent static electricity buildup and discharge sparks? ____________________________
- Pin-pricked cover to resist blistering when transferring hot materials or air/gases under pressure? ____________________________
- Abrasion sleeve or guard? ____________________________
- Heat shield? ____________________________
- Sub-zero exposure resistance? ____________________________
- Special assembly requirements? ____________________________
- Continuous transfer service or intermittent service? ____________________________
- Flexibility: Do space restrictions exist where the hose will be used? ____________________________
- Bend Radius: of the hose relative to space in which hose will be used? ____________________________

Considering the intended use of the hose, how flexible will it need to be (check one)?

- ☐ Extremely flexible  ☐ Slightly flexible  ☐ Not an issue

Weight: How will the hose be handled during use, if at all?

- ☐ Very important  ☐ Slightly important  ☐ Not an issue

---
Application Data
Important Safety Information

Read this page before using any of the products/information in this catalog.

This catalog is designed to be used as a guide in selecting the proper hose for the applications listed herein. It contains many cautions, warnings, guidelines, and directions for the safe and proper use of Eaton Industrial hose. All these directions and footnotes should be read and understood before specifying or using any of these hoses.

Throughout this catalog, potentially harmful situations are highlighted with the following symbols.

This symbol is used to indicate imminently hazardous situations which, if not avoided, will result in serious injury or death.

This symbol is used to indicate potentially hazardous situations which, if not avoided, could result in serious injury or death.

This symbol is used to indicate potentially hazardous situations which, if not avoided, may result in property or equipment damage.

Some of the most common problems in the chemical hose industry result from improper hose and coupling selection, improper assembly techniques, failure to correctly inspect and test hose assemblies, and improper cleaning practices and hose assembly storage techniques.

In turn, these situations can lead to material leakage, spraying, spattering, end blow-offs, explosions, and other situations that may result in serious personal injury and property damage. Personal injuries caused by improper hose assembly specification, installation, and usage could include cuts and abrasions, serious burns, irreparable eye damage, or even death. Therefore, for your safety and the safety of others working around you, Eaton strongly urges you to read and comply with all safety information printed in this publication.

WARNING: Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, and damage to property.

WARNING: Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

Consult the coupling manufacturer to make sure you choose the correct coupling and proper assembly for the application, or contact Eaton Technical Support.

Before using any hose in this catalog, consult the safety section in this catalog and the guidelines on the Eaton web site for the most current information or for global support contact your local Eaton technical representative.

Selection of Hose

Selection of the proper Eaton Industrial hose for an application is essential to the proper operation and safe use of the hose and related equipment. Inappropriate hose selection may result in hose leakage, bursting, or other failure which may cause serious bodily injury or property damage from spraying fluids or flying projectiles. To avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog. Some of the factors to consider in proper hose selection are known as STAMPED:

S - Size (I.D., O.D. and length)
T - Temperature of material conveyed and environmental conditions
A - Application, the conditions of use
M - Material being conveyed, type and concentration
P - Pressure to which the assembly will be exposed
E - Ends; style, type, orientation, attachment methods, etc.
D - Delivery testing, quality, packaging, and delivery requirements

These factors and the supplemental information contained in this catalog should be considered in selecting the proper hose for your application. If you have any questions regarding the proper hose for your application, please contact Eaton for global support contact your local Eaton technical representative.
Proper Selection of Hose Ends

Selection of the proper Eaton Industrial hose end or coupling is essential to the proper operation and safe use of hose assemblies and related equipment. Inadequate attention to the selection of the end fittings may result in hose leakage, bursting, or other failure which may cause serious bodily injury or property damage from spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from selection of an incompatible hose end or coupling, you should carefully review the information in this catalog. Some of the factors which are involved in the selection of the proper hose couplings are:

- fluid compatibility
- temperature
- installation design
- hose size
- corrosion requirements
- fluid conveyed

The given hose and hose end selection factors and the other information contained in this catalog should be considered by you in selecting the proper hose end fitting for your application.

If you have any questions regarding the use of hose/hose ends, for global support contact your local Eaton technical representative.

Hose Installation

Proper installation is essential to the proper operation and safe use of the hose assembly and related equipment. Improper hose assembly installation may result in serious injury or property damage caused by spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from improper hose assembly installation carefully review the information in this catalog. Some of the factors to be considered when installing a hose assembly are:

- hose elongation or contraction
- proper bend radius/hose routing under pressure
- elbows and adapters to relieve strain
- protection from rubbing or abrasion high temperature sources
- protection against excessive movement
- twisting from pressure spikes/surges

These hose assembly installation factors and the other information in this catalog should be considered by you before installing the hose assembly. If you have any questions regarding proper hose installation, for global support contact your local Eaton technical representative.

Hose Maintenance

Proper maintenance of the hose is essential to the safe use of the hose and related equipment. Hose should be stored in a dry place. Hose should also be visually inspected. Any hose that has a cut or gouge in the cover that exposes the reinforcement should be retired from service. Hoses should also be inspected for kinking or broken reinforcement. If the outside diameter of the hose is reduced by 20% or more, the hose should be repaired or removed from service. Inadequate attention to hose maintenance may result in hose leakage, bursting, or other failure which may cause serious bodily injury or property damage from spraying fluids, flying projectiles, or other substances.

WARNING: Eaton industrial hose, should be used only with compatible/approved fittings and assembly equipment. Do not combine or use Aeroquip or Weatherhead fittings and assembly equipment with each other, i.e. Aeroquip fittings with Weatherhead assembly equipment, or with hose, hose fittings or assembly equipment supplied by another manufacturer. Eaton hereby disclaims any obligation or liability (including incidental and consequential damages) arising from breach or contract, warranty, or tort (under negligence or strict liability theories) should Aeroquip or Weatherhead hose fittings or assembly equipment be used interchangeably or with any fittings or assembly equipment supplied by another manufacturer, or in the event that product instructions for each specified hose assembly are not followed.
Proper Hose Handling

Proper hose handling can help preserve hose assembly life and work environment safety. Therefore, consider the following points when handling hose assemblies.

- Avoid crushing or kinking the hose. This can cause severe damage to the reinforcement that isn't always obvious when looking at the cover.
- Do not drag the hose or lift a large bore hose from the middle of its length with the ends hanging down. Doing so can cause kinking, cover cuts, hose reinforcement damage, and coupling damage.
- Limit curvature of the hose to the minimum bend radius recommended by the manufacturer. Also avoid sharp bends at the end fittings and the manifold connections.
- Do not exceed pressure and temperature limits because this could damage the hose and ultimately result in serious bodily injury or property damage. Monitor pressure and temperature during hose use.
- Never allow chemicals, solvents, or any other hazardous materials to drip onto ground. Always comply with environmental laws.
- Never allow chemicals to drip on the exterior of a hose or allow hose to lay in a pool of chemicals. The hose cover may not have the chemical resistance of the tube. If a corrosive material comes into contact with the hose reinforcement, the result could be early hose failure.
- Avoid extreme flexing of the hose near the coupling. If necessary, use elbows in the piping system to assure a straight line connection with the hose.
- Protect hose from heat, flame, cutting and twisting. Use shields or clamps to do this.
- Support hose to avoid mechanical strain on couplings.
- Be aware that dropping or dragging the assembly, chemical incompatibility, exposure to temperature extremes, or extensive internal coupling abrasion can cause leaks and reduce coupling retention.
Important — User Responsibility

The user should carefully observe the precautions listed in this catalog or brochure, including the recommendations on the selection of hose and fittings on the relevant pages on fluid compatibility. In addition, care should be taken not to exceed the minimum bend radius listed for each hose size and type in the hose section. Maximum operating pressure should not exceed pressures listed in the hose data. Instructions for assembling fittings to different hose should be followed carefully to ensure the performance of the completed assembly.

**WARNING** Application considerations must be observed in selecting appropriate components for the application of these products contained herein. The failure to follow the recommendations set forth in this catalog may result in an unstable application which may result in serious personal injury or property damage.

Failure to follow these processes and product instructions and limitations could lead to premature hose assembly failures resulting in property damage, serious injury or death.

For your online resource for Eaton warranty and returns information. Use the links below to review the details of the Eaton Limited Warranty, and learn about the Standard Terms and Conditions that apply to your Eaton products.

**Product Warranty**

The Eaton Hydraulics warranty policy is located at www.eaton.com/hydraulicswarranty

**Terms and Condition of Sale**

The Eaton Hydraulics Terms and conditions of sale policy is located at www.eaton.com/us/en-us/support/terms-conditions/hydraulics-terms-and-conditions.html

**Contact us**

At Eaton, it’s important that we not only provide industry-leading products, but also the best support in the industry. Our customer and sales support organization is dedicated to providing our customers and distributors with the information they need. Contact us to submit your request, questions or comments.

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# Air and Multipurpose

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<th>Temp Range</th>
<th>Pressure Range</th>
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<tbody>
<tr>
<td>EHA500 High pressure air</td>
<td>High-pressure air</td>
<td>Oil-resistant nitrile blend</td>
<td>High-tensile steel wire</td>
<td>Synthetic rubber</td>
<td>-40°C to +93°C (-40°F to +200°F)</td>
<td>41 bar / 600 psi</td>
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## Medium Pressure Air

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<th>Hose Type</th>
<th>Application</th>
<th>Tube Material</th>
<th>Reinforcement</th>
<th>Cover Material</th>
<th>Temp Range</th>
<th>Pressure Range</th>
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<tbody>
<tr>
<td>EHA502 Heavy Duty Air</td>
<td>Heavy duty air</td>
<td>Synthetic rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>28 bar / 400 psi</td>
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<tr>
<td>EHA501 Medium Duty Air</td>
<td>Medium duty air service</td>
<td>Synthetic rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>20,7 bar / 300 psi</td>
</tr>
<tr>
<td>EHA506 Anti-static Medium Duty Air</td>
<td>Light duty air service and pneumatic tools</td>
<td>Anti-static synthetic rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>20,7 bar / 300 psi</td>
</tr>
<tr>
<td>EHA505 Medium Duty Air</td>
<td>Medium duty air service and pneumatic tools</td>
<td>Oil-mist resistant synthetic rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>20,7 bar / 300 psi</td>
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## Low Working Pressure

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<th>Application</th>
<th>Tube Material</th>
<th>Reinforcement</th>
<th>Cover Material</th>
<th>Temp Range</th>
<th>Pressure Range</th>
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</thead>
<tbody>
<tr>
<td>H201 EASY COUPLE™</td>
<td>Air and water transfer, power for air-operated and pneumatic tools</td>
<td>Vinyl Nitrile (RMA Class A)</td>
<td>1-braid fiber</td>
<td>Neoprene or Vinyl nitrile</td>
<td>-23°C to +65°C (-10°F to +150°F)</td>
<td>9-21 bar / 125-300 psi</td>
</tr>
<tr>
<td>H275 POLYFORCE II™</td>
<td>Transfer of air and water. Air tools and lubricated air.</td>
<td>PVC</td>
<td>2-spiral braid</td>
<td>Pin-pricked PVC</td>
<td>-23°C to +65°C (-10°F to +150°F)</td>
<td>9-21 bar / 125-300 psi</td>
</tr>
<tr>
<td>EHA503 Light Duty Air</td>
<td>Light duty air service and pneumatic tools</td>
<td>Oil-mist resistant SBR blend rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
</tr>
<tr>
<td>EHA504 Light Duty Air</td>
<td>Light duty air service and pneumatic tools</td>
<td>Oil-mist resistant synthetic rubber</td>
<td>High-tensile synthetic textile</td>
<td>Synthetic rubber</td>
<td>-25°C to +70°C (-13°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
</tr>
</tbody>
</table>
Air and Multipurpose

**General Air & Water**

**EHA509 & EHA510 Multipurpose - EPDM**

*Application:* For use with air or water and dust control  
*Tube:* EPDM rubber  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* EPDM rubber  
*Temp:* -40°C to +120°C, (-40°F to +248°F)  
*Pressure:* 10,5-20,7 bar / 150-300 psi

**EHA507 & EHA508 Multipurpose**

*Application:* For use with air or water  
*Tube:* Synthetic rubber  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +70°C, (-40°F to +158°F)  
*Pressure:* 10,5-20,7 bar / 150-300 psi

**EHW520 Non-conductive Multipurpose**

*Application:* Air and water transfer, pneumatic tools and industrial welding  
*Tube:* Synthetic rubber  
*Reinforcement:* One textile spiral  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 20,7 bar / 300 psi

**Specialty**

**EHW028 Heavy Duty MSHA Mine Spray**

*Application:* High pressure air in mines  
*Tube:* Oil-mist resistant nitrile blend  
*Reinforcement:* High-tensile steel wire  
*Cover:* MSHA pin-pricked neoprene  
*Temp:* -35°C to +100°C, (-31°F to +212°F)  
*Pressure:* 70 bar / 1000 psi

**EHA511 Air and Dust Suction**

*Application:* For suction of air, dust, grain, powder, etc.  
*Tube:* Synthetic rubber  
*Reinforcement:* Synthetic textile and steel helical wire  
*Cover:* Corrugated synthetic rubber  
*Temp:* -20°C to +70°C, (-4°F to +158°F)
Air and Multipurpose hose - Safety information

**Important!**

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ **WARNING:** Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ **WARNING:** Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ **WARNING:** Be aware that if you replace a hose with one having a different I.D. than the original hose, material velocity could increase or decrease, possibly creating static electricity. This could lead to an explosion causing serious injury or death.

⚠️ **WARNING:** Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.
Air and Multipurpose

High Pressure

EHA500

High Pressure Air

Construction:
Tube: Oil-resistant nitrile blend
Reinforcement: High-tensile steel wire
Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +93°C
(-40°F to +200°F)

Application:
• High-pressure air service

Markets:
• Construction
• Oil field equipment
• Drilling equipment
• Mining
• Rental industry
• Steel
• Paper

Type of couplings:
• Boss
• Ground joint
• Air hammer
• Air King
• Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<tr>
<td></td>
<td></td>
<td>mm</td>
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<td>psi</td>
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<td>in</td>
<td>kg/m</td>
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<td>12.7</td>
<td>0.50</td>
<td>23.0</td>
<td>0.91</td>
<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
</tr>
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<td>0.75</td>
<td>29.5</td>
<td>1.16</td>
<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
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<td>25.4</td>
<td>1.00</td>
<td>36.0</td>
<td>1.42</td>
<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
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<td>31.8</td>
<td>1.25</td>
<td>43.0</td>
<td>1.69</td>
<td>41.0</td>
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<td>2400</td>
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<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
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<td>EHA500-40YW-100</td>
<td>63.5</td>
<td>2.50</td>
<td>80.0</td>
<td>3.15</td>
<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
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<tr>
<td>EHA500-48YW-100</td>
<td>76.2</td>
<td>3.00</td>
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<td>3.70</td>
<td>41.0</td>
<td>600</td>
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<td>2400</td>
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<td>EHA500-64YW-100</td>
<td>101.6</td>
<td>4.00</td>
<td>122.0</td>
<td>4.80</td>
<td>41.0</td>
<td>600</td>
<td>165</td>
<td>2400</td>
</tr>
</tbody>
</table>

*50 ft. length also available and black cover available on a MTO basis
EHA502

Heavy Duty Air

**Construction:**
- **Tube:** Oil-mist resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Application:**
- Heavy duty air service

**Markets:**
- Construction
- Mining
- Oil and gas exploration
- Drilling equipment
- Rental industry
- Steel
- Quarries

**Type of couplings:**
- Boss male
- Ground joint female
- Air hammer
- Air king
- Eaton quick disconnect

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

### Air and Multipurpose – Medium Pressure

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>bar</td>
<td>psi</td>
</tr>
<tr>
<td>EHA502-08YW-</td>
<td>12,7</td>
<td>0.50</td>
<td>23,0</td>
<td>0.91</td>
<td>28,0</td>
</tr>
<tr>
<td>EHA502-10YW-</td>
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<td>0.62</td>
<td>26,0</td>
<td>1.02</td>
<td>28,0</td>
</tr>
<tr>
<td>EHA502-12YW-</td>
<td>19,0</td>
<td>0.75</td>
<td>30,0</td>
<td>1.18</td>
<td>28,0</td>
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<tr>
<td>EHA502-16YW-</td>
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<td>60,0</td>
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<td>28,0</td>
</tr>
<tr>
<td>EHA502-32YW-</td>
<td>50,8</td>
<td>2.00</td>
<td>66,0</td>
<td>2.60</td>
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<td>EHA502-40YW-</td>
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<td>3.62</td>
<td>28,0</td>
</tr>
<tr>
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<td>101,6</td>
<td>4.00</td>
<td>118,0</td>
<td>4.65</td>
<td>28,0</td>
</tr>
</tbody>
</table>

* Product also available in Black - BK

---

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
### Air and Multipurpose

**Medium Pressure**

**EHA501**

Medium Duty Air

TS 745 - EN ISO 2398 Type 4 Class A

---

**Construction:**
- **Tube:** Oil-mist resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

---

**Application:**
- Medium duty air service

**Markets:**
- Construction
- Mining
- Oil and gas exploration
- Drilling equipment
- Rental industry
- Steel
- Quarries

**Type of couplings:**
- Boss male
- Ground joint female
- Air hammer
- Air king
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

---

**Part No.*  | Hose I.D. (mm)  | Hose O.D. (mm)  | Max Operating Pressure (bar/psi)  | Burst Pressure (bar/psi)  | Weight (kg/m)  | lbs/ft  | Length (ft)  
---|---|---|---|---|---|---|---|
EHA501-08YW- | 12.7  | 22.0  | 20.7/300  | 62.0/900  | 0.33  | 0.22  | 100  
EHA501-10YW- | 15.9  | 25.0  | 20.7/300  | 62.0/900  | 0.37  | 0.25  | 100  
EHA501-12YW- | 19.0  | 29.0  | 20.7/300  | 62.0/900  | 0.50  | 0.33  | 100  
EHA501-16YW- | 25.4  | 36.0  | 20.7/300  | 62.0/900  | 0.67  | 0.45  | 100  
EHA501-20YW- | 31.8  | 44.0  | 20.7/300  | 62.0/900  | 0.96  | 0.64  | 100  
EHA501-24YW- | 38.1  | 51.0  | 20.7/300  | 62.0/900  | 1.18  | 0.79  | 100  
EHA501-28YW- | 44.5  | 60.0  | 20.7/300  | 62.0/900  | 1.63  | 1.10  | 100  
EHA501-32YW- | 50.8  | 65.0  | 20.7/300  | 62.0/900  | 1.66  | 1.11  | 100  
EHA501-40YW- | 63.5  | 80.0  | 20.7/300  | 62.0/900  | 2.45  | 1.65  | 100  
EHA501-48YW- | 76.2  | 92.0  | 20.7/300  | 62.0/900  | 2.65  | 1.78  | 100  
EHA501-64YW- | 101.6 | 118.0 | 20.7/300  | 62.0/900  | 3.81  | 2.56  | 100  

* Product also available in Black - BK
Air and Multipurpose
Medium Pressure

**EHA506**

**Anti-static Medium Duty Air**

**Construction:**
- **Tube:** Anti-static synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C (-13°F to +158°F)

**Application:**
- Light duty air service
- Pneumatic tools

**Markets:**
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service

**Type of couplings:**
- Eaton quick disconnect
- Male barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.**</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm/in</td>
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<td>kg/m</td>
<td>lbs/ft</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm/in</td>
<td>bar/psi</td>
<td>ft</td>
<td></td>
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<tr>
<td>EHA506-04BK-</td>
<td>6.4/0.25</td>
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<td>0.09</td>
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<td>EHA506-05BK-</td>
<td>7.9/0.31</td>
<td>15/0.59</td>
<td>20.7/300</td>
<td>0.19</td>
<td>0.13</td>
</tr>
<tr>
<td>EHA506-06BK-</td>
<td>9.5/0.38</td>
<td>17/0.67</td>
<td>20.7/300</td>
<td>0.22</td>
<td>0.15</td>
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<td>EHA506-08BK-</td>
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<td>21/0.83</td>
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<tr>
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<td>36/1.42</td>
<td>20.7/300</td>
<td>0.75</td>
<td>0.50</td>
</tr>
</tbody>
</table>

* Product sold in bales with maximum three cut lengths in each bale
** Product also available in Yellow - YW

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
EHA505

Medium Duty Air

**Construction:**
- **Tube:** Oil-mist resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C  
(-13°F to +158°F)

**Application:**
- Medium duty air service
- Pneumatic tools

**Markets:**
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service

**Type of couplings:**
- Eaton quick disconnect
- Male barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

**Part No.**

<table>
<thead>
<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>20.7</td>
<td>300</td>
<td>0.20</td>
<td>0.13</td>
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<td>EHA505-06BK-</td>
<td>9.5</td>
<td>0.38</td>
<td>20.7</td>
<td>300</td>
<td>0.27</td>
<td>0.18</td>
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<td>20.7</td>
<td>300</td>
<td>1.89</td>
<td>1.27</td>
</tr>
</tbody>
</table>

* Product sold in bales with maximum three cut lengths in each bale
** Product also available in Yellow - YW

---

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**
Air and Multipurpose
Low Working Pressure

**H201**

**Construction:**
- Tube: Vinyl Nitrile (RMA Class A)
- Reinforcement: 1-braid fiber
- Cover: Black (BK) Neoprene
- Blue, Green, Grey, Red and Yellow (BU, GN, GY, RD, YW)
- Vinyl nitrile
  (RD, GN, and BK are MSHA approved)

**Application:**
- Air and water transfer
- Pneumatic tools
- Air tools

**Operating temperature:**
- Air and Water: -40°C to +100°C (-40°F to +212°F)
- Oil: -40°C to +127°C (-40°F to +260°F)

**Markets:**
- Oil and gas exploration
- Construction
- Mining
- Plastic molding

**Type of couplings:**
- Aeroquip® socketless
- Push-on couplings
- Eaton "B" series
- Eaton quick disconnect

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### EASY COUPLE™

<table>
<thead>
<tr>
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<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi bar</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>6,4 0.25</td>
<td>12,7 0.50</td>
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<td>0.22 0.15</td>
<td>250, 500</td>
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<tr>
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<td>23,6 0.93</td>
<td>21,0 300</td>
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</tr>
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<td>55,0 800</td>
<td>0.57 0.38</td>
<td>250, 500</td>
<td></td>
</tr>
</tbody>
</table>

* Specify color in order: All sizes available in Black, Blue and Red
** Product also available in Green, Gray and Yellow
**POLYFORCE II™**

**Construction:**
- **Tube:** PVC
- **Reinforcement:** 2-spiral fiber
- **Cover:** Pin-pricked PVC

**Operating temperature:**
-23°C to +65°C
(-10°F to +150°F)

**Application:**
- For transfer of air and water
- Air tools
- Lubricated air

**Markets:**
- Construction
- Mining
- General industry
- In-plant air service
- Food processing

**Type of couplings:**
- Eaton “E” series (-6, -8, -12, -16)
- Eaton “Z” series (-4, -6, -8, -12, -16)
- 265 “P” series (-4, -6, -8, -12)
- TTC series (-4, -6, -8, -12, -16)
- Barbed inserts
- Quick acting or long shank
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
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<td>mm  in</td>
<td>mm  in</td>
<td>bar  psi</td>
<td>bar  psi</td>
<td>mm  in</td>
<td>kg/m</td>
<td>lbs/ft</td>
</tr>
<tr>
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<td>82.1 1200</td>
<td>15.9  0.63</td>
<td>0.10</td>
<td>0.07</td>
</tr>
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<td>82.1 1200</td>
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<td>0.12</td>
</tr>
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<td>82.1 1200</td>
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<td>0.23</td>
</tr>
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<td>69.0 1000</td>
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<td>0.34</td>
</tr>
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<td>101.6 4.00</td>
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<td>0.91</td>
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</tbody>
</table>

* Additional colors available ** Additional lengths available on select items
Air and Multipurpose
Low Working Pressure

**EHA503**

**Light Duty Air**
TS 745 EN ISO 2398 Type 1 - Class A

**Construction:**
- **Tube:** Oil-mist resistant SBR blend rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Application:**
- • Light duty air service
- • Pneumatic tools

**Markets:**
- • Construction
- • Mining
- • Rental industry
- • Oil and gas exploration
- • In-plant air service

**Operating temperature:**
- -25°C to +70°C
  (-13°F to +158°F)

**Type of couplings:**
- • Boss
- • Ground joint
- • Air hammer
- • Air king
- • Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
</tr>
<tr>
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<td>0.50</td>
<td>22,0</td>
<td>0.87</td>
<td>10,5</td>
<td>150</td>
<td>41,0</td>
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<td>0.62</td>
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<td>0.98</td>
<td>10,5</td>
<td>150</td>
<td>41,0</td>
</tr>
<tr>
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<td>29,0</td>
<td>1.14</td>
<td>10,5</td>
<td>150</td>
<td>41,0</td>
</tr>
<tr>
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<td>150</td>
<td>41,0</td>
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<td>150</td>
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<td>41,0</td>
</tr>
</tbody>
</table>
Construction:
Tube: Oil-mist resistant synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Abrasion, ozone, and weather resistant synthetic rubber

Application:
- Light duty air service
- Pneumatic tools

Markets:
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service

Operating temperature:
-25°C to +70°C
(-13°F to +158°F)

Type of couplings:
- Eaton quick disconnect
- Male barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Air and Multipurpose Low Working Pressure

EHA504 Light Duty Air

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
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<td>mm</td>
<td>mm</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
</tr>
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</tr>
<tr>
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<td>11 0.43</td>
<td>10,5 150</td>
<td>41,0 600</td>
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<td>300</td>
</tr>
<tr>
<td>EHA504-05BK-</td>
<td>7,9 0.31</td>
<td>14 0.55</td>
<td>10,5 150</td>
<td>41,0 600</td>
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<tr>
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<td>34 1.34</td>
<td>10,5 150</td>
<td>41,0 600</td>
<td>0,64 0.43</td>
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</tbody>
</table>

*Product also available in Yellow - YW
Air and Multipurpose
General Air and Water

EHA509 & EHA510  Multipurpose - EPDM

Construction:
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile
- Cover: EPDM rubber

Type of couplings:
- Hansen® quick connect
- Male barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Application:
- For use with air or water

Markets:
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service

Operating temperature:
-40°C to +122°C
(-40°F to +248°F)

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
<th>Weight</th>
<th>Length</th>
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</thead>
<tbody>
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<td>Hose O.D.</td>
<td>Burst Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>bar/psi</td>
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<td>ft</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>bar/psi</td>
<td>lbs/ft</td>
<td></td>
</tr>
<tr>
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<td>0.12 0.08</td>
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EHA510

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<th>Weight</th>
<th>Length</th>
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</thead>
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<td>Burst Pressure</td>
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<td></td>
</tr>
<tr>
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<td>ft</td>
</tr>
<tr>
<td></td>
<td>in</td>
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<td>lbs/ft</td>
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<td>0.69 0.46</td>
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</table>
EHA507 & EHA508  Multipurpose

Construction:
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Abrasion, ozone, and weather resistant synthetic rubber

Application:
- For use with air or water

Markets:
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service

Type of couplings:
- Eaton quick disconnect
- Male barbed inserts

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

<table>
<thead>
<tr>
<th>Part No.**</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>in</td>
<td>mm</td>
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<td>bar</td>
<td>psi</td>
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<td>150</td>
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<tr>
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<td>0.31</td>
<td>14.0</td>
<td>0.55</td>
<td>10.5</td>
<td>150</td>
</tr>
<tr>
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<td>0.38</td>
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<td>150</td>
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<td>150</td>
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<td>1.34</td>
<td>10.5</td>
<td>150</td>
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<td>EHA508-04BK-</td>
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<td>13.0</td>
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<td>0.87</td>
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<tr>
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<td>0.62</td>
<td>25.0</td>
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<td>300</td>
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<tr>
<td>EHA508-12BK-</td>
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<td>0.75</td>
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<td>1.14</td>
<td>20.7</td>
<td>300</td>
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<tr>
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<td>37.0</td>
<td>1.46</td>
<td>20.7</td>
<td>300</td>
</tr>
</tbody>
</table>

* Product sold in bales with maximum three cut lengths in each bale.
** Product also available in BU-Blue, GY-Gray or YW-Yellow

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Air and Multipurpose
General Air and Water

**EHW520**

**Non-conductive Multipurpose**

### Construction:
- **Tube:** Synthetic rubber
- **Reinforcement:** One textile spiral reinforcement
- **Cover:** Synthetic rubber

### Application:
- For use with air and water
- Pneumatic tools
- For use in industrial welding with acetylene, oxygen and LPG

### Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

### Markets:
- Construction
- Mining
- In-plant air service
- Oil and gas exploration

### Type of couplings:
- Eaton quick disconnect

Always consult coupling manufacturer for specifications, assembly instructions, attachment procedure and other coupling recommendations.

* Tested in accordance with ISO 8031. Non-conductive under 500V electric tension

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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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Air and Multipurpose
Specialty

**EHW028**

Heavy Duty MSHA Mine Spray

**Construction:**
- **Tube:** Oil-mist resistant NBR rubber
- **Reinforcement:** High-tensile steel wire
- **Cover:** MSHA pin-pricked neoprene

**Operating temperature:**
- -35°C to +100°C
  (-31°F to +212°F)

**Application:**
- High pressure air in mines

**Markets:**
- Mining
- Construction
- Equipment rental

**Type of couplings:**
- Male NPT
- Hansen® quick connect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<table>
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<th>Part No.</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
EHA511

Air and Dust Suction

Construction:
Tube: Natural and synthetic rubber
Reinforcement: Synthetic textile and steel helical wire
Cover: Corrugated synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For suction and discharge of air, dust, grain, powder, etc.

Markets:
• Construction
• In-plant service

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Chemical

Suction & Discharge

- EHC006 Heavy Duty UHMW-PE S & D . . . . . . . . . . . . . . . . . . . . . . . . . C-6
- EHC019 Hard Wall Heavy Duty UHMW-PE S & D . . . . . . . . . . . . . . . . . C-7
- EHC006 Corrugated UHMW-PE S & D . . . . . . . . . . . . . . . . . . . . . . . C-8
- EHC004 UHMW-PE S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-9
- EHC003 Heavy Duty Chemical S & D . . . . . . . . . . . . . . . . . . . . . . . C-10
- EHC002 Flat Corrugated Chemical S & D . . . . . . . . . . . . . . . . . . . . . . C-11
- EHC001 Chemical S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-12
- EHC018 Hard Wall Heavy Duty Chemical S & D . . . . . . . . . . . . . . . . . C-13
- EHC011 Heavy Duty EPDM S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . C-14
- EHC009 Corrugated EPDM S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . C-15
- EHC008 EPDM S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-16
- EHC013 CSM S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-17
- EHC034 Corrugated XLPE S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . C-18
- EHC036 Flat Corrugated UHMW-PE S & D . . . . . . . . . . . . . . . . . . . . . C-19

Discharge

- EHC017 Heavy Duty UHMW-PE Discharge . . . . . . . . . . . . . . . . . . . . . C-20
- EHC016 UHMW-PE Discharge . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-21
- EHC015 Heavy Duty Chemical Discharge . . . . . . . . . . . . . . . . . . . . . C-22
- EHC014 Chemical Discharge . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-23
- EHC010 Heavy Duty EPDM Discharge . . . . . . . . . . . . . . . . . . . . . . . C-24
- EHC007 EPDM Discharge . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-25
- EHC012 CSM Discharge . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-26

Specialty

- EHT453, EHT454, EHT455 Agricultural Spray . . . . . . . . . . . . . . . . . . . C-27
- EHT451 & EHT452 Agricultural Spray . . . . . . . . . . . . . . . . . . . . . . . C-28
Suction & Discharge

**EHC006 Heavy Duty UHMW-PE Suction and Discharge**

- **Application**: Suction and discharge of chemicals and solvents
- **Tube**: UHMW-PE
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and dual anti-static copper wires
- **Cover**: Corrugated EPDM
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC018 Hard Wall Heavy Duty Chemical S & D**

- **Application**: Suction and discharge of corrosive chemicals and solvents
- **Tube**: PE blend
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover**: EPDM rubber
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC011 Heavy Duty EPDM Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: EPDM rubber
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover**: EPDM rubber
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC009 Corrugated EPDM Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: EPDM rubber
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover**: EPDM rubber
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC008 EPDM Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: EPDM rubber
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover**: EPDM rubber
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC013 CSM Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: CSM rubber
- **Reinforcement**: High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover**: NBR blend
- **Temp**: -40°C to +80°C, (-40°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi

**EHC034 Corrugated XLPE Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: Standard XLPE (Cross Linked Polyethylene)
- **Reinforcement**: High-tensile synthetic textile with dual steel helical wire
- **Cover**: Corrugated green EPDM
- **Temp**: -40°C to +65°C, (-40°F to +150°F)
  
**Max. ambient temperature 121°C (250°F)**
- **Pressure**: 14 bar / 203 psi

**EHC036 Corrugated XLPE Suction and Discharge**

- **Application**: Suction and discharge of chemicals, and solvents
- **Tube**: Dual tube: UHMW-PE and white smooth heat resistant EPDM
- **Reinforcement**: High tensile synthetic textile with dual steel wire helix and anti-static copper wire
- **Cover**: Blue, chemical resistant corrugated EPDM rubber
- **Temp**: -40°C to +120°C, (-40°F to +250°F)
- **Pressure**: 16 bar / 232 psi
**Chemical Discharge**

**EHC017 Heavy Duty UHMW-PE Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** UHMW-PE
- **Reinforcement:** High-tensile synthetic textile, and anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 16 bar / 230 psi

**EHC016 UHMW-PE Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** UHMW-PE
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**EHC015 Heavy Duty Chemical Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** PE blend
- **Reinforcement:** High-tensile synthetic textile, and anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 16 bar / 230 psi

**EHC014 Chemical Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** PE blend
- **Reinforcement:** High-tensile synthetic textile, and anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**EHC010 Heavy Duty EPDM Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile, dual anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 16 bar / 230 psi

**EHC007 EPDM Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** EPDM rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**EHC012 CSM Discharge**

- **Application:** Discharge of chemicals, and solvents
- **Tube:** CSM rubber
- **Reinforcement:** High-tensile synthetic textile, and anti-static copper wire
- **Cover:** NBR blend
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**Specialty Discharge**

**EHT453, EHT454, EHT455 Agricultural Spray**

- **Application:** Spraying pesticides and fertilizers
- **Tube:** PVC
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** PVC
- **Temp:** -10°C to +60°C, (+14°F to +140°F)
- **Pressure:** 50-100 bar / 725-1450 psi

**EHT451 & EHT452 Agricultural Spray**

- **Application:** Spraying pesticides and fertilizers
- **Tube:** PVC
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** PVC
- **Temp:** -10°C to +60°C, (+14°F to +140°F)
- **Pressure:** 20-40 bar / 290-580 psi
Chemical hose - Safety information

**Important!**

⚠️ **WARNING:** A failure of chemical hose in service can result in serious injury, death, or damage to property. All chemical hose manufacturers recommend specific hose constructions to handle various chemicals. IF AFTER CAREFUL REVIEW OF THE CHEMICAL RESISTANCE CHART FOUND IN THIS CATALOG, YOU HAVE ANY QUESTIONS ABOUT PROPER SELECTION OF THE HOSE, DO NOT USE OR RECOMMEND THE HOSE WITHOUT FIRST CONSULTING EATON FOR TECHNICAL ASSISTANCE. IF YOU DO NOT HAVE A MOST RECENT COPY, CONTACT CUSTOMER SUPPORT AT 1-888-258-0222. FOR GLOBAL SUPPORT, CONTACT YOUR LOCAL EATON REPRESENTATIVE.

The chemical resistance chart lists the more commonly used materials, chemicals, solvents, oils, etc. The recommendations are based on room temperature and pressure conditions normally recommended for the particular type of hose being used. Where conditions beyond this can be met readily, they have been so indicated; where conditions are not normal and cannot be readily met, Eaton should always be consulted. The chart does not imply conformance to the Food & Drug Administration requirements or Federal or State Laws when handling food products. The list of chemicals is offered as a guide to the chemical resistance properties of the tube material of the hoses shown. It should be used as a guide only, as the degree of resistance of any elastomer with a particular fluid depends upon such variables as temperature, concentration, pressure conditions, velocity of flow, duration of exposure, aeration, stability of the fluid, etc. Therefore, when in doubt, it is advisable not to use the hose and you should contact your Eaton representative for assistance. Do not use chemical hose at temperatures or pressures above those recommended by the manufacturer. All operators must be thoroughly trained in the care and use of this hose and must at all times wear protective clothing. A hose or system failure could cause the release of a poisonous, corrosive or flammable material.

⚠️ **WARNING:** If cover blisters exist, be careful not to pop them. If the hose was damaged in such a way that material was allowed to leak between the cover and inner tube, the blisters may contain this material. If the material is hazardous and splatters when the blisters are popped, it could cause serious physical injury.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.
Foreword
The object of the following procedures is to detect any weakness in a hose assembly before the weakness causes failure of a hose in service. While these testing and inspection procedures may be applied to any hose, the periodic testing and inspection procedures outlined herein are mandatory for all hoses.

Rules for proper selection, handling, use and storage of hose are to be carefully followed. It is imperative that hose, while in storage or in service, not be subjected to any form of abuse such as kinking, exposure to an environment involving extremes of temperature, corrosive or oxidizing fumes or liquids, oils and solvents, ozone, etc. The procedures outlined in the ARPM Hose Handbook, Chapter IX, Care, Maintenance and Storage of Hose should be followed carefully.

Scope
This procedure is intended as a guide for the inspection, maintenance, and testing of chemical hose. It covers hose containing carcass reinforcements of woven fiber fabric; fiber cords; fiber or wire braids; flat, oval or round wire helix; spiral wire or cable; or any combinations of these reinforcements. Chemical hose is available with various types of ends or, where specified, suitable metal fittings.

Handling
Crushing or kinking of the hose can cause severe damage to the reinforcement. Care should be exercised to prevent mishandling. Do not drag the hose or lift large bore hose from the middle of its length with the ends hanging down. Limit the curvature of the hose to the bend radius recommended by the manufacturer and avoid sharp bends at the end fittings and at manifold connections.

Operation
Important: Personnel involved in an operation using chemical hose must use safety precautions such as wearing eye or face protection, rubber gloves, boots, and other types of protective clothing.

Pressures and temperatures are to be monitored to see that the hose is not exposed to conditions above specified limits. Exceeding specified limits could injure the hose and result in damage to property and serious bodily harm.

Never allow chemicals to drip on the exterior of a hose or allow hose to lay in a pool of chemicals since the hose cover may not have the chemical resistance of the tube. Should a corrosive material come in contact with the reinforcing material, early failure could result.

If kinking or crushing occurs, examine the hose carefully, and, if the outside diameter is reduced 5% to 20%, the hose must be immediately subjected to the Hydrostatic Pressure Test and Examination. If the reduction in diameter is more than 20%, retire the hose from service.

Care must be taken when different chemicals are conveyed in the same hose; the chemicals may react and shorten the service life of the hose. When it is impractical to disconnect the hose line after use, drain any remaining chemical from the hose.

Storage
Before placing chemical hose in storage, the hose must be completely drained and any potentially explosive vapors or corrosive residues flushed out.

WARNING: EXTREME CARE MUST BE TAKEN WHEN FLUSHING OUT A CHEMICAL HOSE WITH WATER; SOME CHEMICALS, SUCH AS CONCENTRATED ACIDS, MAY REACT WITH WATER AND CAUSE SPATTERING WHICH COULD RESULT IN SERIOUS INJURY TO EYES OR OTHER AREAS OF THE BODY.

When flushing a hose, disposal of the effluent must be made in such a manner that environmental problems are not created. Chemical hose should be stored so that air can circulate through it. This procedure helps extend the life of the hose. Hose should be stored in a cool, dark, dry place at a temperature less than 100°F (38°C).

Frequency of Inspection and Pressure Testing When chemical hose is used in bulk transfer service, it shall be visually inspected daily and hydrostatically tested every 90 days. The details of the examination and testing are listed in this catalog. An inspection card and recording system should be adopted for chemical hose used in dock applications.

WARNING: Consult with the coupling manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

WARNING: Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

WARNING: Kinks can cause hose to burst, leading to bodily harm.

This information taken from the ARPM, Hose Technical Information Sub Committee, IP-11-7 Chemical Hose, Copyright 1979, Revised 1987. (202) 682-1338
### Chemical

#### Suction & Discharge

**EHC006**

**Heavy duty UHMW-PE Suction & Discharge**

TS EN12115 Type SD

**Construction:**
- **Tube:** UHMW-PE
  - FDA approved material
- **Reinforcement:**
  - High-tensile synthetic textile, steel helical wire and dual anti-static copper wires
- **Cover:** EPDM rubber

**Application:**
- For suction and discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Operating temperature:**
-40°C to +80°C
-(-40°F to +176°F)

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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</tbody>
</table>

*Product also available in BU-Blue and GN-Green

⚠️ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Chemical – Suction & Discharge

EHC019

Hard Wall Heavy Duty UHMW-PE Suction & Discharge

Construction:
Tube: UHMW-PE
Reinforcement: High-tensile synthetic textile, dual steel helical wire and anti-static copper wire
Cover: EPDM rubber

Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

Application:
• For suction and discharge of corrosive chemicals, and solvents

Markets:
• Chemical petroleum industry
• In-plant transfers
• Tank truck
• Paper/pulp industry
• Bulk hauling
• Oil and gas exploration

Type of couplings:
• Cam and groove
• Combination nipple
• Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length
# mm in mm in bar psi bar psi mm in kPa in/Hg kg/m lbs/ft ft
EHC019-48- 76,2 3.00 92,0 3.62 17,2 250 70 1000 530 20,87 80,0 24 3,20 2.15 100
EHC019-64- 101,6 4.00 121,0 7.64 17,2 250 70 1000 700 27,56 80,0 24 4,75 3.19 100

Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Chemical – Suction & Discharge

**EHC005**

**Corrugated UHMW-PE Suction & Discharge**

**Construction:**
- **Tube:** UHMW-PE
  - FDA Approved
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** Corrugated EPDM

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Operating temperature:**
- -40°C to +80°C
  - (-40°F to +176°F)

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male MPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>mm</td>
<td>bar/psi</td>
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*Product available in additional colors on a MTO basis

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

**Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Please consult Eaton catalog or Technical Support for proper application.**
**EHC004**

**UHMW-PE Suction & Discharge**

### Construction:
- **Tube:** UHMW-PE
  - FDA Approved
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** EPDM rubber

### Application:
- For suction and discharge of chemicals and solvents

### Markets:
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

### Type of couplings:
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

### Operating temperature:
- -40°C to +80°C
  - (-40°F to +176°F)

### Application:

<table>
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<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>in</td>
<td>bar</td>
<td>psi</td>
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<td>in</td>
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<td>41</td>
<td>600</td>
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</tbody>
</table>

*Product also available in BK-Black and BU-Blue

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*Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Please consult Eaton catalog or Technical Support for proper application.*
## Chemical Suction & Discharge

### EHC003

#### Heavy Duty Chemical Suction & Discharge

**Construction:**
- **Tube:** PE blend
- **Reinforcement:** High-tensile synthetic textile, dual steel helical wire and dual anti-static copper wires
- **Cover:** EPDM rubber

**Operating temperature:**
- -40°C to +80°C
  (-40°F to +176°F)

**Application:**
- For suction and discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### Chemical – Suction & Discharge

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>mm</td>
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<td>mm</td>
<td>in</td>
<td>bar psi</td>
<td>bar psi</td>
<td>mm</td>
<td>in</td>
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</table>

⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
**EHC002**

**Flat Corrugated Chemical Suction & Discharge**

**Construction:**
- **Tube:** PE blend
- **Reinforcement:** High-tensile synthetic textile, dual steel helical wire and anti-static copper wire
- **Cover:** Flat corrugated EPDM rubber

**Operating temperature:**
- -40°C to +80°C
  (-40°F to +176°F)

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

**Part No.***

<table>
<thead>
<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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</thead>
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<td></td>
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<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
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*Product also available in BK-black

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Chemical Suction & Discharge

**EHC001**

**Chemical Suction & Discharge**

**Construction:**
- Tube: PE blend
- Reinforcement: High-tensile synthetic textile, dual steel helical wire and anti-static copper wire
- Cover: EPDM rubber

**Operating temperature:**
- -40°C to +80°C
  (-40°F to +176°F)

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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*Product also available in BK-black

⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Please consult Eaton catalog or Technical Support for proper application.
EHC018

**Hard Wall Heavy Duty Chemical Suction & Discharge**

**Construction:**
- **Tube:** PE Blend
- **Reinforcement:** High-tensile synthetic textile, dual steel helical wire and anti-static copper wire
- **Cover:** EPDM rubber

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Application:**
- For suction and discharge of corrosive chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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<th>Minimum Bend Radius</th>
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⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Please consult Eaton catalog or Technical Support for proper application.
**Chemical**

**Suction & Discharge**

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**EHC011**

**Heavy Duty EPDM Suction & Discharge**

**TS EN12115 EPDM Type SD**

**Construction:**

* Tube: EPDM rubber  
* Reinforcement: High-tensile synthetic textile, dual steel helical wires and anti-static copper wire  
* Cover: EPDM rubber

**Operating temperature:**

-40°C to +80°C  
(-40°F to +176°F)

**Application:**

* For suction and discharge of chemicals and solvents

**Markets:**

* Chemical petroleum industry  
* In-plant transfers  
* Tank truck  
* Paper/pulp industry  
* Bulk hauling  
* Oil and gas exploration

**Type of couplings:**

* Cam and groove  
* Combination nipple  
* Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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**Part No.**

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⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
**Chemical Suction & Discharge**

**EHC009**

**Corrugated EPDM Suction & Discharge**

**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** Corrugated EPDM rubber

**Operating temperature:**
- $-40^\circ C$ to $+80^\circ C$
  
  (-40°F to +176°F)

**Application:**
- For suction and discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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⚠️ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Chemical Suction & Discharge

EHC008

**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** EPDM rubber

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Application:**
- For suction and discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

---

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

**Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.**
Chemical Suction & Discharge

**EHC013 CSM Suction & Discharge**

**Construction:**
- **Tube:** CSM rubber
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** Nitrile blend rubber

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Application:**
- For suction and discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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<table>
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<th>#</th>
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⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
EHC034

Corrugated XLPE Suction and Discharge

### Construction:
- **Tube:** Standard XLPE (cross linked Polyethylene)
- **Reinforcement:** High tensile synthetic textile with dual steel helical wire
- **Cover:** Corrugated green EPDM
- **Operating temperature:** -40°C to +65°C (-40°F to +150°F)
  Max. ambient temperature 121°C (250°F)

### Application:
- For suction and discharge of chemicals and solvents

### Markets:
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

### Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

### Chemical Suction & Discharge

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

#### Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.

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<th>Burst Pressure</th>
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Chemical Suction & Discharge

EHC036 Flat corrugated UHMWE-PE Suction & Discharge

Construction
- Tube: Clear smooth chemical resistant UHMW-PE and white smooth heat resistant EPDM rubber as a second lining
- Reinforcement: High tensile synthetic textile with dual steel wire helix and antistatic copper wire
- Cover: Blue, weather, ozone and chemical resistant corrugated EPDM rubber

Application
- For transfer of chemicals and solvents
- Great for use in pharmaceutical and food industry

Ambient temperature
-40°C to +120°C (-40°F to +250°F)

Markets
- Chemical industry
- Pulp/paper processing
- Tank truck
- In plant transfers
- Oil and gas exploration

Type of Couplings
- Cam and groove
- Combination nipple

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminum, brass etc.) and attachment procedure with crimp specifications.

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<th>Part No.</th>
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Eaton refers to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

Eaton recommends the evaluation of its hoses in the service environment for proper application. Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
**Chemical Discharge**

**EHC017**

**Heavy duty UHMW-PE discharge**
TS EN12115 UHMW-PE Type D

**Construction:**
- Tube: UHMW-PE
  - FDA approved material
- Reinforcement: High-tensile synthetic textile, and anti-static copper wire
- Cover: EPDM rubber

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Application:**
- For discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

---

<table>
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<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
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<th>Max Operating Pressure</th>
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*Product also available in BU-Blue and GN-Green

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

**Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.**
Chemical Discharge

EHC016

UHMW-PE discharge

Construction:
Tube: UHMW-PE
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: EPDM rubber

Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

Application:
- For discharge of chemicals and solvents

Markets:
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

Type of couplings:
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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<th>Part No.*</th>
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*Product also available in BK-Black and BU-Blue

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Chemical
Discharge

**EHC015**

**Heavy Duty Chemical Discharge**

TS EN12115 XLPE Type D-M

**Construction:**
- Tube: PE blend
- Reinforcement: High-tensile synthetic textile, and anti-static copper wire
- Cover: EPDM rubber

**Application:**
- For discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

### Part No.

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<th>Part No.</th>
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⚠️ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- **Tube:** PE blend
- **Reinforcement:** High-tensile synthetic textile, and anti-static copper wire
- **Cover:** EPDM rubber

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Application:**
- For discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

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**EHC014**

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*Product also available in BK-Black

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⚠ Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Construction:
Tube: EPDM
Reinforcement: High-tensile synthetic textile, and dual anti-static copper wire
Cover: EPDM rubber

Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

Application:
• For discharge of chemicals and solvents

Markets:
• Chemical petroleum industry
• In-plant transfers
• Tank truck
• Paper/pulp industry
• Bulk hauling
• Oil and gas exploration

Type of couplings:
• Cam and groove
• Combination nipple
• Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

Heavy Duty EPDM Discharge
TS EN12115 EPDM Type D-M

EHC010

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Chemical Discharge

EHC007 EPDM Discharge

Construction:
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: EPDM rubber

Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

Application:
- For discharge of chemicals and solvents

Markets:
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

Type of couplings:
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.

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<td>41,0</td>
<td>600</td>
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**Construction:**
- Tube: CSM rubber
- Reinforcement: High-tensile synthetic textile, and anti-static copper wire
- Cover: Nitrile blend

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Application:**
- For discharge of chemicals and solvents

**Markets:**
- Chemical petroleum industry
- In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

---

### Table: Chemical Discharge CSM Discharge

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<th>Hose O.D.</th>
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Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Please consult Eaton catalog or Technical Support for proper application.
EHT453, EHT454 & EHT455  

**Agricultural Spray**

**Construction:**
- Tube: PVC
- Reinforcement: High-tensile synthetic textile
- Cover: PVC

**Operating temperature:**
- -10°C to +60°C
  (+14°F to +140°F)

**Application:**
- • Spraying pesticides and fertilizers

**Markets:**
- • Agriculture

**Type of couplings:**
- • Barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

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### Part No.* | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Weight | Length |
<table>
<thead>
<tr>
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| **EHT454**     |    |    |    |    |     |     |     |     |      |        |   |
| EHT454-05XX-   | 7,9 | 0.31 | 15,0 | 0.59 | 80,0 | 1160 | 240 | 3480 | 0,18 | 0.12 | 100 |
| EHT454-06XX-   | 9,5 | 0.38 | 18,0 | 0.71 | 80,0 | 1160 | 240 | 3480 | 0,24 | 0.16 | 100 |
| EHT454-08XX-   | 12,7 | 0.50 | 21,0 | 0.73 | 80,0 | 1160 | 240 | 3480 | 0,31 | 0.21 | 100 |

| **EHT455**     |    |    |    |    |     |     |     |     |      |        |   |
| EHT455-05XX-   | 7,9 | 0.31 | 15,0 | 0.59 | 100,0 | 1450 | 300 | 4350 | 0,19 | 0.12 | 100 |
| EHT455-06XX-   | 9,5 | 0.38 | 18,0 | 0.71 | 100,0 | 1450 | 300 | 4350 | 0,25 | 0.16 | 100 |
| EHT455-08XX-   | 12,7 | 0.50 | 21,0 | 0.73 | 100,0 | 1450 | 300 | 4350 | 0,32 | 0.22 | 100 |

* XX represents color options — BK is black, RD is red, YW is yellow, OR is orange and BU is blue

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Elevated temperatures can change chemical resistance ratings. Please refer to the Chemical Compatibility information prior to use. Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specification. Please consult Eaton catalog or Technical Support for proper application.
Chemical Speciality

EHT451 & EHT452 Agricultural Spray

Construction:
Tube: PVC
Reinforcement: High-tensile synthetic textile
Cover: PVC

Operating temperature:
-10°C to +60°C (+14°F to +140°F)

Application:
• Spraying pesticides and fertilizers

Markets:
• Agriculture

Type of couplings:
• Barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Weight Length

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<th>psi</th>
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Chemical – Specialty

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
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- EHF003 Dairy Washdown ................................ D-27
Food and Beverage

Food Suction & Discharge

**EHF002  Liquid Food Suction & Discharge**

*Application:* Suction and discharge of milk, vegetable oil and beverages  
*Tube:* Vegetable oil-resistant NBR  
*Reinforcement:* High-tensile synthetic textile with a single steel helical wire  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 10.5 bar / 150 psi

**EHF018  Milk Suction & Discharge**

*Application:* Suction and discharge of milk  
*Tube:* Vegetable oil-resistant NBR rubber  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 7 bar / 100 psi

**EHF010 & EHF011  Non-Oily Suction & Discharge**

*Application:* Suction and discharge of food, such as water, fruit juices, etc.  
*Tube:* SBR blend  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +10°C, (-40°F to +100°F)  
*Pressure:* 7.0-10.5 bar / 100-150 psi

**EHF001  Liquid Food Discharge**

*Application:* Discharge of milk, vegetable oil and beverages  
*Tube:* Vegetable oil-resistant NBR  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 10.5 bar / 150 psi

**EHF017  Milk Discharge**

*Application:* Discharge of milk  
*Tube:* Vegetable oil-resistant NBR  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 7 bar / 100 psi

**EHF008 & EHF009  Non-Oily Liquid Discharge**

*Application:* Discharge of food, such as water, fruit juices, etc.  
*Tube:* SBR blend  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 7.0-10.5 bar / 100-150 psi

Beverage Suction & Discharge

**EHF021  Flat Corrugated Alcohol Suction & Discharge**

*Application:* S & D of food containing high percentage of alcohol  
*Tube:* UHMW-PE  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* Flat corrugated EPDM rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 10.5 bar / 150 psi

**EHF020  Alcohol Suction & Discharge**

*Application:* S & D of food containing high percentage of alcohol  
*Tube:* UHMW-PE  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* EPDM rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 10.5 bar / 150 psi

**EHB502 & EHB503  Medium Duty Beer/Wine S & D**

*Application:* S & D of beverages; mineral water, beer, fruit juices, wine & liquor  
*Tube:* EPDM rubber  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* EPDM rubber  
*Temp:* -40°C to +120°C, (-40°F to +248°F)  
*Pressure:* 7.0-10.5 bar / 100-150 psi

**EHF007  Heavy Duty Potable Water Suction & Discharge**

*Application:* Suction and discharge of potable water  
*Tube:* SBR blend  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* EPDM rubber  
*Temp:* -30°C to +70°C, (-22°F to +158°F)  
*Pressure:* 17.2 bar / 250 psi

**EHF005  Potable Water Suction & Discharge**

*Application:* Suction and discharge of potable water  
*Tube:* Synthetic rubber  
*Reinforcement:* High-tensile synthetic textile with steel helical wire  
*Cover:* Synthetic rubber  
*Temp:* -40°C to +70°C, (-40°F to +158°F)  
*Pressure:* 10.5 bar / 150 psi

**EHF019  Alcohol Transfer**

*Application:* Discharge of food containing high percentage of alcohol  
*Tube:* UHMW-PE  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* EPDM rubber  
*Temp:* -40°C to +80°C, (-40°F to +176°F)  
*Pressure:* 10.5 bar / 150 psi
Food and Beverage

Beverage Suction & Discharge (continued)

**EHB500 & EHB501  Beer/Wine Light Duty Discharge**

- **Application:** Discharge of beverages; mineral water, beer, fruit juices, wine & liquor
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber
- **Temp:** -40°C to +120°C, (-40°F to +248°F)
- **Pressure:** 7,0-10,5 bar / 100-150 psi

**EHF004  Potable Water Discharge**

- **Application:** Discharge of potable water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +70°C, (-40°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**EHF006  Softwall Potable Water Discharge**

- **Application:** Discharge of potable water
- **Tube:** SBR blend
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber
- **Temp:** 30°C to +70°C, (-22°F to +158°F)
- **Pressure:** 8,0-10,0 bar / 115-145 psi

**H285 CLEARFORCE™—R**

- **Application:** For food and beverage dispensing; and spraying and conveying fertilizer and pesticides
- **Tube:** Clear PVC
- **Reinforcement:** 2-spiral fiber
- **Cover:** Clear PVC
- **Temp:** -26°C to +66°C, (-15°F to +150°F)
- **Pressure:** 5,0-17,2 bar / 75-250 psi

**Dry Bulk Suction & Discharge**

**EHF016  Channeled Bulk Suction & Discharge**

- **Application:** S & D bulk abrasive products; sugar, flour, milk powder & granules
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with steel helical wire and anti-static copper wire
- **Cover:** Channeled synthetic rubber
- **Temp:** -40°C to +125°C, (-40°F to +257°F)
- **Pressure:** 10,5 bar / 150 psi

**EHF014  Corrugated Bulk Suction & Discharge**

- **Application:** S & D bulk abrasive products; sugar, flour, milk powder & granules
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with steel helical wire and anti-static copper wire
- **Cover:** Corrugated synthetic rubber
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**Cleaning Service**

**EHF003  Dairy Washdown**

- **Application:** Cleaning in food processing facilities
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +125°C, Steam to +165°C (-40°F to +257°F), Steam to +329°F
- **Pressure:** 7 bar / 1000 psi
Food and Beverage

Introduction and Safety information

Remove the guesswork from selecting, buying and using critical application hose

- When you are handling easily contaminated or hazardous material it is critical to select the proper hose. The high visibility branding and color coding removes the guesswork from hose selection.

Environmental resistance

- The tube and cover materials of the Eaton Industrial Hose are designed to assure maximum life and top value. They are sophisticated hoses for demanding jobs.

Built to make work faster, easier and safer

- Moving and connecting hose several times a day isn’t easy work. Each of the Industrial Hose is designed to be easy to handle as safety and job performance will allow.

Honest value

- There is only one way to make hose cost less — build it cheaper. You won’t find compromises in the Industrial Hose. That’s why we put the Eaton brand name on them.

Food hose sanification

- Max 120°C for 15 min. with steam -or- Max 50°C for 15 min. with 5% caustic soda.

Food and beverage hose - Safety information

Important!

⚠️ WARNING: Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ WARNING: Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ WARNING: Consult with the coupling manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ WARNING: Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ WARNING: Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

⚠️ WARNING: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.
**Food and Beverage**

**Food Suction & Discharge**

**EHF002**

**Liquid Food Suction & Discharge**

**Construction:**
- Tube: Vegetable oil-resistant NBR, FDA approved material
- Reinforcement: High-tensile synthetic textile with a single steel helical wire
- Cover: Oil, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
- -40°C to +80°C (-40°F to +176°F)

**Application:**
- For suction and discharge of milk, vegetable oil and beverages

**Standards:**
- Regulation EC 1935/2004
- Regulation EC2023/2006
- FDA regulation CFR title No.21 art 177.2600

**Markets:**
- Food processing
- Tank truck
- Dairy processing
- Milk processing

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.*</th>
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<th>Hose O.D.</th>
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</table>

* Additional colors available on BK-Black, BU-Blue, or RD-Red
**Food and Beverage**

**Food Suction & Discharge**

---

**EHF018**

**Milk suction & discharge**

**Construction:**
- **Tube:** Vegetable oil-resistant NBR rubber, FDA approved material
- **Reinforcement:** High-tensile synthetic textile with steel helical wire
- **Cover:** Oil, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Application:**
- For suction and discharge of milk

**Standards:**
- Regulation EC 1935/2004
- Regulation EC2023/2006
- FDA regulation CFR title No.21 art 177.2600

**Markets:**
- Food processing
- Tank truck
- Dairy processing
- Milk processing

**Type of couplings:**
- Cam and groove
- Combination nipple

- Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D. (mm)</th>
<th>Hose I.D. (in)</th>
<th>Max Operating Pressure (bar)</th>
<th>Burst Pressure (psi)</th>
<th>Minimum Bend Radius (mm)</th>
<th>Vacuum (kPa)</th>
<th>Weight (kg/m)</th>
<th>Length (ft)</th>
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<td>300</td>
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<td>1.93</td>
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<td>100</td>
<td>20.7</td>
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<td>300</td>
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</table>

*Additional colors available BK-Black and RD-Red

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**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Food Suction & Discharge

EHF010 & EHF011 Non-Oily Suction & Discharge

Construction:
Tube: SBR blend
FDA approved material
Reinforcement: High-tensile synthetic textile with steel helical wire
Cover: Abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +80°C
(-40°F to +176°F)

Application:
• For suction and discharge of food, such as water, fruit juices, etc.

Markets:
• Food processing
• Tank truck
• Dairy processing
• Milk processing

Type of couplings:
• Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Part No.* Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length

<table>
<thead>
<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>bar/psi</td>
<td>mm/in</td>
<td>kPa</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>0.44/100</td>
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<td>0.56/100</td>
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<td>20.7/300</td>
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<td>0.74/100</td>
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<td>2.64/100</td>
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* Additional colors available BK-Black and RD-Red

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Food and Beverage**

**Food Discharge**

**EHF001**

**Liquid Food Discharge**

* Construction:*
  - **Tube:** Vegetable oil-resistant NBR, FDA approved material
  - **Reinforcement:** High-tensile synthetic textile
  - **Cover:** Oil, abrasion, ozone, and weather resistant synthetic rubber

* Operating temperature:*
  - -40°C to +80°C
  - (-40°F to +176°F)

* Application:*
  - Discharge of milk, vegetable oil and beverages

* Markets:*
  - Food transfer
  - Food tank truck

* Standards:*
  - Regulation EC 1935/2004
  - Regulation EC2023/2006
  - FDA regulation CFR title No.21 art 177.2600

* Type of couplings:*
  - Cam and groove
  - Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>30,0 mm</td>
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<td>0,61 kg/m</td>
<td>100 ft</td>
</tr>
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<td>100 ft</td>
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<td>100 ft</td>
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<td>100 ft</td>
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<td>100 ft</td>
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<td>76,2 mm</td>
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<td>2,93 kg/m</td>
<td>100 ft</td>
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<td>3,83 kg/m</td>
<td>100 ft</td>
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</tbody>
</table>

* Additional colors available BK-Black and RD-Red

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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Food Discharge

EHF017 Milk Discharge

**Construction:**
- **Tube:** Vegetable oil-resistant NBR, FDA approved material
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Oil, abrasion, ozone, and weather resistant synthetic rubber

**Application:**
- For discharge of milk

**Markets:**
- Food transfer
- Food tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
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<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
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<td>100</td>
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<td>100</td>
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<td>1.69</td>
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<td>115,0</td>
<td>4.53</td>
<td>7,0</td>
<td>100</td>
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</table>

* Additional colors available BK-Black and RD-Red
Food and Beverage

Food Discharge

EHF008 & EHF009 Non-Oily Liquid Discharge

**Construction:**
- **Tube:** SBR blend, FDA approved material
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +80°C (-40°F to +176°F)

**Application:**
- For discharge of food, such as water, fruit juices, etc.

**Markets:**
- Food processing
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

*Product available in additional colors BK-Black and RD-Red

<table>
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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Beverage Suction & Discharge

**EHF021**

Flat Corrugated Alcohol Suction & Discharge

**Construction:**
- **Tube:** UHMW-PE
  - FDA approved material
- **Reinforcement:** High-tensile synthetic textile with steel helical wire and anti-static wire
- **Cover:** Flat corrugated EPDM rubber

**Operating temperature:**
- -40°C to +80°C
  - (-40°F to +176°F)

**Application:**
- For suction and discharge of food containing high percentage of alcohol

**Markets:**
- Breweries
- Distilleries
- Food processing

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

**Part No.**

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<th>#</th>
<th>Hose I.D.</th>
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<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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* Additional colors available BK-Black and BU-Blue

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
## EHF020

**Alcohol suction & discharge**

### Construction:
- **Tube:** UHMW-PE
- **FDA approved material**
- **Reinforcement:** High-tensile synthetic textile with steel helical wire
- **Cover:** EPDM rubber

### Operating temperature:
- -40°C to +80°C
  (-40°F to +176°F)

### Application:
- For suction and discharge of food containing high percentage of alcohol

### Standards:
- Regulation EC 1935/2004
- Regulation EC2023/2006
- FDA regulation CFR title No.21 art 177.2600

### Markets:
- Breweries
- Distilleries
- Food processing

### Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Table: EHF020 Specifications

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<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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* Additional colors available BK-Black and BU-Blue

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Food and Beverage**

**Beverage Suction & Discharge**

---

**EHB502 & EHB503**

**Medium Duty Beer/Wine Suction & Discharge**

**Construction:**
- **Tube:** EPDM rubber
- **FDA approved material**
- **Reinforcement:** High-tensile synthetic textile with steel helical wire
- **Cover:** EPDM rubber

**Application:**
- For suction and discharge of beverages such as mineral water, beer, fruit juices, wine and liquor

**Markets:**
- Food processing
- Tank truck
- Breweries
- Distilleries

**Operating temperature:**
- -40°C to +120°C (-40°F to +248°F)

**Refer to warnings and safety information in Section N.**

**Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

---

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Part No. *

<table>
<thead>
<tr>
<th>Part No. *</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
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<th>Minimum Bend Radius</th>
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<th>Length</th>
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<td>20,7</td>
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| EHB503-16RD- | 25,4 | 1.00 | 38,0 | 1.50 | 10,5 | 150 | 31,0 | 450 | 75 | 2.95 | 94,8 | 28 | 0.72 | 0.48 | 100 |
| EHB503-20RD- | 31,8 | 1.25 | 45,0 | 1.77 | 10,5 | 150 | 31,0 | 450 | 95 | 3.74 | 94,8 | 28 | 0.95 | 0.64 | 100 |
| EHB503-24RD- | 38,1 | 1.50 | 52,0 | 2.05 | 10,5 | 150 | 31,0 | 450 | 110 | 4.33 | 94,8 | 28 | 1.19 | 0.80 | 100 |
| EHB503-28RD- | 44,5 | 1.75 | 58,5 | 2.30 | 10,5 | 150 | 31,0 | 450 | 130 | 5.12 | 94,8 | 28 | 1.36 | 0.91 | 100 |
| EHB503-32RD- | 50,8 | 2.00 | 66,0 | 2.60 | 10,5 | 150 | 31,0 | 450 | 150 | 5.91 | 94,8 | 28 | 1.66 | 1.11 | 100 |
| EHB503-40RD- | 63,5 | 2.50 | 78,5 | 3.09 | 10,5 | 150 | 31,0 | 450 | 280 | 11.02 | 94,8 | 28 | 2.08 | 1.40 | 100 |
| EHB503-48RD- | 76,2 | 3.00 | 93,0 | 3.66 | 10,5 | 150 | 31,0 | 450 | 340 | 13.39 | 94,8 | 28 | 2.68 | 1.80 | 100 |
| EHB503-64RD- | 101,6 | 4.00 | 118,5 | 4.67 | 10,5 | 150 | 31,0 | 450 | 450 | 17.72 | 94,8 | 28 | 3.54 | 2.38 | 100 |

* Additional colors available BK-Black and BU-Blue
**Food and Beverage**

**Beverage Suction & Discharge**

**EHF007**

**Heavy Duty Potable Water Suction & Discharge**

- **Construction:**
  - **Tube:** SBR blend meets FDA & European requirements
  - **Reinforcement:** High-tensile synthetic textile with steel helical wire
  - **Cover:** EPDM rubber

- **Operating temperature:**
  - -30°C to +70°C
  - (-22°F to +158°F)

- **Application:**
  - For suction and discharge of potable water

- **Markets:**
  - Food processing
  - Tank truck

- **Type of couplings:**
  - Cam and groove
  - Combination nipple

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length

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<th>Part No.</th>
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<th>Burst Pressure</th>
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<th>Vacuum</th>
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<td>4.57</td>
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Food and Beverage
Beverage Suction & Discharge

EHF005 Potable Water Suction & Discharge

Construction:
Tube: Synthetic rubber
FDA approved material
Reinforcement: High-tensile synthetic textile with steel helical wire
Cover: Abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
- For suction and discharge of potable water

Markets:
- Food processing
- Tank truck
- Dairy processing
- Milk processing

Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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* Additional colors available BK-Black and RD-Red
Food and Beverage
Beverage Discharge

**EHF019**

**Alcohol Transfer**

**Construction:**
- Tube: UHMW-PE
  - FDA approved material
- Reinforcement: High-tensile synthetic textile
- Cover: EPDM rubber

**Application:**
- Discharge of food containing high percentage of alcohol

**Markets:**
- Breweries
- Distilleries
- Food processing

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
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<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
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* Additional colors available BK-Black and BU-Blue

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
# EHB500 & EHB501

**Beer/Wine Light Duty Discharge**

**Construction:**
- **Tube:** EPDM
  - FDA approved material
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber

**Application:**
- For discharge of beverages such as mineral water, beer, fruit juices, wine and liquor

**Markets:**
- Food processing
- Tank truck
- Breweries
- Distilleries

**Operating temperature:**
- -40°C to +120°C
  - (-40°F to +248°F)

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.*</th>
<th>Hose I.D.</th>
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* Product available in additional colors BK-Black and BU-Blue
Food and Beverage

Beverage Discharge

**EHF004**

**Potable Water Discharge**

**Construction:**
- **Tube:** Synthetic rubber
- **FDA approved material**
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +80°C
(-40°F to +176°F)

**Application:**
- For discharge of potable water

**Markets:**
- Food transfer
- Food tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.*** | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Weight** | **Length**
--- | --- | --- | --- | --- | --- | ---
EHF004-12BU- | 19,0 | 0.75 | 30,0 | 1.18 | 10,5 | 150 | 31,0 | 450 | 0.63 | 0.43 | 100
EHF004-16BU- | 25.4 | 1.00 | 37.0 | 1.46 | 10,5 | 150 | 31,0 | 450 | 0.82 | 0.55 | 100
EHF004-20BU- | 31.8 | 1.25 | 44.0 | 1.73 | 10,5 | 150 | 31,0 | 450 | 1.08 | 0.73 | 100
EHF004-24BU- | 38.1 | 1.50 | 51.0 | 2.00 | 10,5 | 150 | 31,0 | 450 | 1.37 | 0.92 | 100
EHF004-28BU- | 44.5 | 1.75 | 57.5 | 2.26 | 10,5 | 150 | 31,0 | 450 | 1.57 | 1.06 | 100
EHF004-32BU- | 50.8 | 2.00 | 65.0 | 2.56 | 10,5 | 150 | 31,0 | 450 | 1.91 | 1.28 | 100
EHF004-40BU- | 63.5 | 2.50 | 77.5 | 3.05 | 10,5 | 150 | 31,0 | 450 | 2.33 | 1.57 | 100
EHF004-48BU- | 76.2 | 3.00 | 92.0 | 3.62 | 10,5 | 150 | 31,0 | 450 | 3.03 | 2.04 | 100
EHF004-64BU- | 101.6 | 4.00 | 117.5 | 4.63 | 10,5 | 150 | 31,0 | 450 | 3.96 | 2.66 | 100

* Product also available in BU-Blue and RD-Red

Warning:
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Beverage Discharge

**EHF006**

**Softwall Potable Water Discharge**

**Construction:**
- **Tube:** SBR blend meets FDA & European requirements
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber

**Operating temperature:**
-30°C to +70°C
(-22°F to +158°F)

**Application:**
- For discharge of potable water

**Markets:**
- Food processing
- Tank truck
- Dairy processing
- Milk processing

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Food and Beverage

Beverage Discharge

H285

CLEARFORCE™—R

Construction:
Tube: Clear PVC
NSF-51 certified
FDA approved material
Reinforcement: 2-spiral fiber
Cover: Clear PVC

Operating temperature:
-26°C to +66°C
(-15°F to +150°F)

Application:
• For food and beverage dispensing
• For spraying and conveying fertilizer and pesticides

Markets:
• Food processing
• Agriculture
• In-plant service

Type of couplings:
• “E” Series
• 265 “P” Series
• Barbed inserts

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Food and Beverage
Dry Bulk Suction & Discharge

EHF016 Channeled Bulk Suction & Discharge

Construction:
Tube: Abrasion resistant synthetic rubber
Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
Cover: Channeled, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For suction and discharge of bulk abrasive products such as sugar, flour, milk powder and granules

Markets:
• Food processing
• Tank truck

Type of couplings:
• Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Hose O.D.</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Dry Bulk Suction & Discharge

EHF014
Corrugated Bulk Suction & Discharge

Construction:
Tube: Abrasion resistant synthetic rubber
Reinforcement: High-tensile synthetic textile with steel helical wire and Cover: Corrugated, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For suction and discharge of bulk abrasive products such as sugar, flour, milk powder and granules

Markets:
• Food processing
• Tank truck

Type of couplings:
• Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³
Food and Beverage
Dry Bulk Suction & Discharge

**EHF015**

**Flat Corrugated Bulk Suction & Discharge**

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
- Cover: Flat corrugated abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For suction and discharge of bulk abrasive products such as sugar, flour, milk powder and granules

**Markets:**
- Food processing
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Abrasion loss value acc. DIN53516 ≤120mm³

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Dry Bulk Suction & Discharge

**EHF013**

**Bulk Suction & Discharge**

**Construction:**
- Tube: Abrasion resistant synthetic rubber
- Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
- Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For suction and discharge of bulk abrasive products such as sugar, flour, milk powder and granules

**Markets:**
- Food processing
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

*Abrasion loss value acc. DIN53516 ≤120mm³*

**Channeled, Corrugated and Flat corrugated cover versions available on request.**

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³*

**Channeled, Corrugated and Flat corrugated cover versions available on request.**
Food and Beverage
Dry Bulk Discharge

EHF012  Bulk Discharge

Construction:
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For discharge of bulk abrasive material for food industry

Markets:
• Food processing
• Tank truck

Type of couplings:
• Cam and groove
• Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Food and Beverage
Dry Bulk Discharge

**EHF022**

**Flat Light Duty Bulk Discharge**

**Construction:**
- **Tube:** Abrasion resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C (-40°F to +158°F)

**Application:**
- For discharge of bulk abrasive material for food industry

**Markets:**
- Food processing
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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Food and Beverage
Cleaning Service

Dairy Washdown

**Construction:**
- Tube: Synthetic rubber, meets FDA & European requirements
- Reinforcement: High-tensile synthetic textile
- Cover: Oil, heat, abrasion, ozone and weather resistant synthetic rubber

**Operating temperature:**
- -40°C to +125°C
- Steam up to +165°C
  (-40°F to +176°F)
- Steam up to +329°F

**Application:**
- For cleaning in food processing plant

**Markets:**
- Food processing

**Standards:**
- Regulation EC 1935/2004
- Regulation EC 2023/2006
- FDA regulation CFR title No.21 art 177.2600

**Application:**
- • For cleaning in food processing plant

**Type of couplings:**
- • Barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
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</table>

* Additional colors available BK-Black and RD-Red
Proper selection of hose ends

Selection of the proper Eaton Industrial hose end or coupling is essential to the proper operation and safe use of hose assemblies and related equipment. Inadequate attention to the selection of the end fittings may result in hose leakage, bursting, or other failure which may cause serious bodily injury or property damage form spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from selection of an incompatible hose end or coupling, you should carefully review the information in this catalog. Some factors which are involved in selection of the proper hose couplings are:

- Fluid compatibility
- Temperature
- Installation design
- Hose size
- Corrosion requirements
- Fluid conveyed

The given hose and hose end selection factors and the other information contained in this catalog should be considered by you in selecting the proper hose end fitting for your application.

If you have any questions regarding the use of hose/hose ends please contact your usual Eaton Technical Support or Customer Support teams.

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminium, brass etc.) and attachment procedure with crimp specifications.

Notes
Gaseous

LPG
EHG003 Liquid Propane Suction & Discharge .............E-4
EHG004 Liquid Propane Suction & Discharge .............E-5

Nitrogen
EHG001 Nitrogen Transfer ...............................E-6

Carbon Dioxide
EHG002 Carbon Dioxide Discharge .......................E-7
Gaseous

**LPG**

**EHG003 Liquid Propane Suction & Discharge**

*Application:* Transfer and delivery of propane and butane, and natural gas in open, well ventilated areas (1 psiG max. working pressure).

*Tube:* Static-dissipating NBR

*Reinforcement:* High-tensile synthetic textile with steel helical wire

*Temp:* -30°C to +70°C, (-22°F to +158°F)

*Hose is capable of this rating. LP-Gas should never be elevated above 100°F*

*Pressure:* 25 bar / 365 psi

**EHG004 Liquid Propane Suction & Discharge**

*Application:* Transfer and delivery of propane and butane, and natural gas in open, well ventilated areas (1 psiG max. working pressure).

*Tube:* Static-dissipating NBR

*Reinforcement:* High-tensile synthetic textile with steel helical wire

*Temp:* -50°C to +70°C, (-58°F to +158°F)

*Hose is capable of this rating. LP-Gas should never be elevated above 100°F*

*Pressure:* 25 bar / 365 psi

---

**Nitrogen**

**EHG001 Nitrogen Transfer**

*Application:* Transfer and delivery of propane and butane, and natural gas in open, well ventilated areas (1 psiG max. working pressure)

*Tube:* Synthetic rubber

*Reinforcement:* High-tensile synthetic textile with steel helical wire

*Temp:* -50°C to +70°C, (-58°F to +158°F)

*Pressure:* 20.7 bar / 300 psi

---

**Carbon Dioxide**

**EHG002 Carbon Dioxide Discharge**

*Application:* Transfer of nitrogen

*Tube:* Natural and synthetic rubber

*Reinforcement:* High-tensile synthetic textile

*Temp:* -40°C to +70°C, (-40°F to +158°F)

*Pressure:* 103 bar / 1500 psi
Gaseous hose - Safety information

**Important!**

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Do not use chemical hose at temperatures or pressures above those recommended by the manufacturer. All operators must be thoroughly trained in the care and use of this hose and must at all times wear protective clothing. A hose or system failure could cause the release of a poisonous, corrosive or flammable material.

⚠️ **WARNING:** Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ **WARNING:** Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ **WARNING:** Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton industrial hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ **WARNING:** Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

⚠️ **WARNING:** Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

---

**Safety aware**

- Eaton understands that specialty hoses need quality tubes and cover to assure safe hose life. When your jobs requires safety, think Eaton.

**Permanent branding for easy identification**

- The name of the hose and the working pressure are molded into the hose cover can’t rub off. This makes hose selection on the job quicker, easier and safer.

**The eaton reputation for quality**

- Your assurance of dependable performance.
Gaseous

LPG

**EHG003**

**Liquid Propane Suction & Discharge**

**TS EN 1762 TYPE SD**

**Construction:**
- Tube: Static dissipating NBR
- Reinforcement: High-tensile synthetic textile with steel helical wire
- Cover: Pin-pricked synthetic rubber

**Application:**
- For transfer and delivery of propane and butane
- Transfer of natural gas in open, well ventilated areas (1 psiG max. working pressure)

**Markets:**
- LPG delivery vehicles
- Petroleum refineries
- Chemical processing
- Tank truck

**Type of couplings:**
- Swaged or crimp male couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Refer to warnings and safety information in Section N.**

**Not to be used for NH₃.** Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

**Construction:**

<table>
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<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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Gaseous
LPG

EHG004

Liquid Propane Suction & Discharge
TS EN1762 TYPE SD LTS

Construction:
- Tube: Static dissipating NBR
- Reinforcement: High-tensile synthetic textile with steel helical wire
- Cover: Pin-pricked synthetic rubber

Operating temperature:
-50°C to +70°C
(-58°F to +158°F)

Hose is capable of this rating. LP-Gas should never be elevated above 100°F

Application:
- For transfer and delivery of propane and butane
- Transfer of natural gas in open, well ventilated areas (1 psig max. working pressure)

Markets:
- LPG delivery vehicles
- Petroleum refineries
- Chemical processing
- Tank truck

Type of couplings:
- Swaged or crimp male couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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<td>101</td>
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Gaseous Nitrogen

**EHG001 Nitrogen Transfer**

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Application:**
- For transfer of nitrogen

**Markets:**
- Nitrogen tanks
- Tank truck

**Type of couplings:**
- Swaged or crimp male couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Weight** | **Length**
---|---|---|---|---|---|---|
EHG001-08- | 12.7 | 0.50 | 22 | 0.87 | 20.7 | 300 | 0.33 | 0.22 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-10- | 15.9 | 0.62 | 25 | 0.98 | 20.7 | 300 | 0.37 | 0.25 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-12- | 19.0 | 0.75 | 29 | 1.14 | 20.7 | 300 | 0.50 | 0.34 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-16- | 25.4 | 1.00 | 36 | 1.42 | 20.7 | 300 | 0.67 | 0.45 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-20- | 31.8 | 1.25 | 44 | 1.73 | 20.7 | 300 | 0.96 | 0.65 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-24- | 38.1 | 1.50 | 51 | 2.01 | 20.7 | 300 | 1.18 | 0.79 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-28- | 44.5 | 1.75 | 60 | 2.36 | 20.7 | 300 | 1.63 | 1.10 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-32- | 50.8 | 2.00 | 65 | 2.56 | 20.7 | 300 | 1.66 | 1.12 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-40- | 63.5 | 2.50 | 80 | 3.15 | 20.7 | 300 | 2.45 | 1.65 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-48- | 76.2 | 3.00 | 92 | 3.62 | 20.7 | 300 | 2.65 | 1.78 | 100 | bar | psi | kg/m | lbs/ft | ft
EHG001-64- | 101.6 | 4.00 | 118 | 4.65 | 20.7 | 300 | 3.81 | 2.56 | 100 | bar | psi | kg/m | lbs/ft | ft

Additional colors available RD-Red and BU-Blue
**Gaseous Carbon Dioxide**

---

**EHG002**

**Carbon Dioxide Discharge**

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Application:**
- For transfer of carbon dioxide

**Markets:**
- Fire Fighting

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

<table>
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<tr>
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<th>Part No.</th>
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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Hose maintenance

Proper maintenance of the hose is essential to the safe use of the hose and related equipment. Hose should be stored in a dry place. Hose should also be visually inspected. Any hose that has a cut or gouge in the cover that exposes the reinforcement should be retired from service. Hoses should also be inspected for kinking or broken reinforcement. If the outside diameter of the hose is reduced by 20% or more, the hose should be repaired or removed from service. Inadequate attention to hose maintenance may result in hose leakage, bursting, or other failure which may cause serious bodily injury or property damage for spraying fluids, flying projectiles, or other substances.

Notes

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Material Handling

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Material Handling

Slurry & Abrasive Resistant

**EHK015 Channeled Abrasion Suction & Discharge**
- Application: S & D abrasive powders, dust, granules, sand, gravel & cement
- Tube: Natural rubber
- Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
- Cover: Channeled synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 31 bar / 450 psi

**EHM001 Corrugated Dry Bulk Suction & Discharge**
- Application: S & D of dry bulk materials, sand, gravel & dry cement
- Tube: Anti-static natural rubber
- Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
- Cover: Corrugated
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5 bar / 150 psi

**EHK014 Corrugated Abrasion Suction & Discharge**
- Application: S & D abrasive powders, dust, granules, sand, gravel & cement
- Tube: Natural rubber
- Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
- Cover: Corrugated synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5 bar / 150 psi

**EHM002 Abrasive Material Suction & Discharge**
- Application: S & D of dry bulk materials, sand, gravel and dry cement
- Tube: Static dissipating synthetic rubber
- Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
- Cover: Synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 8-10,5 bar / 116-150 psi

**EHK013 Abrasion Suction & Discharge**
- Application: Discharge of abrasive powders, dust, granules, sand, gravel, and cement
- Tube: Natural rubber
- Reinforcement: High-tensile synthetic textile with anti-static copper wire
- Cover: Pin-pricked synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5 bar / 150 psi

**EHM005 Hard Wall Material Handling S & D**
- Application: Suction and discharge of abrasive materials; barite bentonite
- Tube: Static dissipating synthetic rubber
- Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
- Cover: Synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5 bar / 150 psi

**EHK012 Abrasion Discharge**
- Application: Discharge of abrasive powders, dust, granules, sand, gravel, and cement
- Tube: Natural rubber
- Reinforcement: High-tensile synthetic textile with anti-static copper wire
- Cover: Pin-pricked synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5 bar / 150 psi

**EHM004 Soft Wall Material Handling Discharge**
- Application: Discharge of abrasive materials including barite bentonite
- Tube: Static dissipating synthetic rubber
- Reinforcement: High-tensile synthetic textile with anti-static copper wire
- Cover: Synthetic rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
- Pressure: 10,5-13,8 bar / 150-200 psi

**EHK011 Abrasion Gravity Fed**
- Application: Discharge of abrasive materials without pressure
- Tube: Natural rubber
- Temp: -40°C to +70°C, (-40°F to +158°F)
Dry Material

**EHK004 Channeled Dry Bulk Suction & Discharge**

Application: S & D of dry bulk materials
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
Cover: Channeled synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 10,5 bar / 150 psi

**EHK003 Corrugated Dry Bulk Suction & Discharge**

Application: S & D of dry bulk materials
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
Cover: Corrugated synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 10,5 bar / 150 psi

**EHK002 Dry Bulk Suction & Discharge**

Application: S & D of dry bulk materials, sand, gravel, dry cement
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
Cover: Synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 10,5 bar / 150 psi

**EHK010 Dry Bulk Suction & Discharge**

Application: S & D of dry bulk materials, sand, gravel, dry cement
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
Cover: Pin-pricked synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 5 bar / 75 psi

**EHK016 Dry Bulk Discharge**

Application: S & D of dry bulk materials, sand, gravel, dry cement
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with anti-static copper wire
Cover: Pin-pricked synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 10,5 bar / 150 psi

**EHK001 Dry Bulk Flat Discharge**

Application: Discharge of dry cement and abrasive materials
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Pin-pricked synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 5 bar / 75 psi

**H0521 WILDCAT™ Heavy Duty Dry Material**

Application: Transfer of dry bulk, of bottle caps and of cleaning agents. Discharge of abrasive materials
Tube: 1/4” tube thickness natural rubber blend
Reinforcement: 2-ply textile and conductive copper static wire
Cover: SBR
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 5 bar / 75 psi

**H0319 WILDCAT™ Soft Wall Dry Material**

Application: Transfer of dry bulk, of bottle caps and of cleaning agents. Discharge of abrasive materials
Tube: 3/16” tube thickness natural rubber blend
Reinforcement: 2-ply textile and conductive copper static wire
Cover: NR blend
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 5 bar / 75 psi

**H0349 WILDCAT™ Hot Air Transfer**

Application: Hot air blower hose; hot, dry, non-oily applications
Tube: EPDM
Reinforcement: Textile with dual helical wires
Cover: Pin-pricked EPDM
Temp: -34°C to +177°C, (-30°F to +350°F)
Pressure: 7,0-10,5 bar / 100-150 psi

**EHM003 Hot Air Blower**

Application: Hot air blower hose; hot, dry, non-oily applications
Tube: EPM
Reinforcement: High-tensile synthetic textile
Cover: EPDM
Temp: -40°C to +180°C Intermittent to 200°C (-40°F to +360°F) Intermittent to 392°F
Pressure: 10,5 bar / 150 psi
**Sandblast**

**H0034 WILDCAT™ Sandblast**

**Application:** Conveys sand or shot for cleaning purposes, sandblast equipment to clean steel or concrete before painting or sealing

**Tube:** Natural rubber

**Reinforcement:** 4-ply textile

**Cover:** SBR

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 7.0-10.5 bar / 100-150 psi

---

**EHC502 Sandblast 2-ply – 60mm³**

**Application:** Conveys sand or shot for cleaning purposes, sandblast equipment to clean steel or concrete before painting or sealing

**Tube:** Static dissipating synthetic rubber

**Reinforcement:** High-tensile synthetic textile with anti-static copper wire

**Cover:** Pin-pricked synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 12.1 bar / 175 psi

---

**EHC501 Sandblast – 35mm³**

**Application:** Conveys sand or shot for cleaning purposes, sandblast equipment to clean steel or concrete before painting or sealing

**Tube:** Static dissipating synthetic rubber

**Reinforcement:** High-tensile synthetic textile with anti-static copper wire

**Cover:** Pin-pricked synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 12.1 bar / 175 psi

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**EHC500 Sandblast – 60mm³**

**Application:** Conveys sand or shot for cleaning purposes, sandblast equipment to clean steel or concrete before painting or sealing

**Tube:** Static dissipating synthetic rubber

**Reinforcement:** High-tensile synthetic textile with anti-static copper wire

**Cover:** Pin-pricked synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 12.1 bar / 175 psi

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**Concrete, Plaster and Grout**

**EHK007 MAURAIDER Heavy Duty Concrete Pumping**

**Application:** High-pressure concrete pumping

**Tube:** Abrasion resistant synthetic and CBR rubber

**Reinforcement:** High-tensile steel cords

**Cover:** Pin-pricked natural rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 85 bar / 1230 psi

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**EHK008 Concrete Vibration**

**Application:** Submerged vibrators to help prevent air bubbles

**Tube:** Synthetic rubber

**Reinforcement:** High-tensile synthetic textile

**Cover:** Synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 10.5 bar / 150 psi

---

**EHK006 MAURAIDER Plaster and Grout Spraying**

**Application:** High-pressure spraying plaster, grout, sand, gypsum, and ready-mixed concrete

**Tube:** Abrasion resistant natural rubber

**Reinforcement:** High-tensile synthetic textile and anti-static copper wire

**Cover:** Pin-pricked synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 85 bar / 1230 psi

---

**EHK005 Plaster and Grout Spraying**

**Application:** High-pressure spraying plaster, grout, sand, gypsum, and ready-mixed concrete

**Tube:** Abrasion resistant synthetic rubber

**Reinforcement:** High-tensile synthetic textile and anti-static copper wire

**Cover:** Pin-pricked synthetic rubber

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 41 bar / 600 psi

---

**EHK029 Plaster and Grout Spraying**

**Application:** High-pressure spraying of plaster, grout and ready-mixed concrete

**Tube:** NR/SBR

**Reinforcement:** High-tensile synthetic textile and anti-static copper wire

**Cover:** NR/SBR Sandblast cover

**Temp:** -40°C to +70°C, (-40°F to +158°F)

**Pressure:** 70 bar / 1000 psi
Material Handling
Introduction and Safety Information

**Slurry and abrasive resistant**
- Where you are transferring abrasive slurries and dry materials, think longer life. Eaton offers a wide selection of industrial hoses that meet and exceed your job needs.

**Flexibility**
- Eaton offers channeled, corrugated and wrapped covers so you can decide how much flexibility your job requires.

**Eaton value**
- Eaton stands behind our products with a commitment for excellence.

---

**Material Handling Hose - Safety Information**

**Important!**

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ **WARNING:** Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ **WARNING:** Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ **WARNING:** Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.
Material Handling
Slurry & Abrasive Resistant

**EHK015**

**Channeled Abrasion Suction & Discharge**

**Construction:**
- **Tube:** Beige color, abrasion resistant natural rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Channeled, abrasion, ozone, and weather resistant synthetic rubber

**Application:**
- For suction and discharge of abrasive powders, dust, granules, sand, gravel and cement

**Markets:**
- Construction
- In-plant transfer
- Tank truck
- Dry cement delivery

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Part No.**

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<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Material handling
Slurry & abrasive resistant

**EHM001**

**Corrugated Dry Bulk Suction & Discharge**

Construction:
- Tube: Anti-static natural rubber
- Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
- Cover: Corrugated, abrasion, ozone and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
- For suction and discharge of dry bulk materials, sand, gravel and dry cement

Markets:
- Construction
- Cement placement

Type of couplings:
- Frame coupling and gaskets

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
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**EHK014**

**Corrugated Abrasion Suction & Discharge**

**Construction:**
- **Tube:** Beige color, abrasion resistant natural rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Corrugated, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C 
(-40°F to +158°F)

**Application:**
- For suction and discharge of abrasive powders, dust, granules, sand, gravel and cement

**Markets:**
- Construction
- In-plant transfer
- Tank truck
- Dry cement delivery

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length**
---|---|---|---|---|---|---|---|---
EHK014-16- | 25.4 | 1.00 | 37.5 | 1.48 | 10.5 | 150 | 31 | 450 | 75 | 2.95 | 94.8 | 28 | 0.80 | 0.54 | 100
EHK014-20- | 31.8 | 1.25 | 44.0 | 1.73 | 10.5 | 150 | 31 | 450 | 95 | 3.74 | 94.8 | 28 | 0.92 | 0.62 | 100
EHK014-24- | 38.1 | 1.50 | 51.0 | 2.01 | 10.5 | 150 | 31 | 450 | 110 | 4.33 | 94.8 | 28 | 1.23 | 0.83 | 100
EHK014-32- | 50.8 | 2.00 | 64.5 | 2.54 | 10.5 | 150 | 31 | 450 | 150 | 5.91 | 94.8 | 28 | 1.70 | 1.14 | 100
EHK014-40- | 63.5 | 2.50 | 77.5 | 3.05 | 10.5 | 150 | 31 | 450 | 190 | 7.48 | 94.8 | 28 | 2.28 | 1.53 | 100
EHK014-48- | 76.2 | 3.00 | 90.5 | 3.56 | 10.5 | 150 | 31 | 450 | 225 | 8.86 | 94.8 | 28 | 2.96 | 1.99 | 100
EHK014-56- | 88.9 | 3.50 | 106.0 | 4.17 | 10.5 | 150 | 31 | 450 | 270 | 10.63 | 94.8 | 28 | 3.72 | 2.50 | 100
EHK014-64- | 101.6 | 4.00 | 119.0 | 4.69 | 10.5 | 150 | 31 | 450 | 325 | 12.80 | 94.8 | 28 | 4.50 | 3.02 | 100
EHK014-80- | 127.0 | 5.00 | 147.0 | 5.79 | 10.5 | 150 | 31 | 450 | 450 | 17.72 | 94.8 | 28 | 6.56 | 4.41 | 100
EHK014-96- | 152.4 | 6.00 | 173.0 | 6.81 | 10.5 | 150 | 31 | 450 | 550 | 21.65 | 94.8 | 28 | 8.64 | 5.81 | 100
EHK014-128- | 203.2 | 8.00 | 227.0 | 8.94 | 10.5 | 150 | 31 | 450 | 900 | 35.43 | 80.0 | 24 | 13.67 | 9.19 | 20
EHK014-160- | 254.0 | 10.00 | 279.0 | 10.98 | 10.5 | 150 | 31 | 450 | 1200 | 47.24 | 80.0 | 24 | 16.79 | 11.28 | 20

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Material Handling
Slurry & Abrasive Resistant

EHM002 Abrasive Material Suction & Discharge

Construction:
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with steel helical wire and anti-static copper wire
Cover: Abrasion, ozone, and weather resistant synthetic rubber

Application:
• For suction and discharge of dry bulk materials, sand, gravel and dry cement

Markets:
• Construction
• Cement placement

Type of couplings:
• Rubber beaded end with flange

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Operating temperature:
-40°C to +70°C (-40°F to +158°F)

<table>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
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*Coupling sold separately

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Eaton Industrial Hose MTO Catalog – NA     E-HOIN-BB012-E  2021

Material Handling
Slurry & Abrasive Resistant

EHK013

Abrasion Suction & Discharge

Construction:
Tube: Beige color, abrasion resistant natural rubber
Reinforcement: High-tensile synthetic textile with helical wire and anti-static copper wire
Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For suction and discharge of abrasive powders, dust, granules, sand, gravel and cement

Markets:
• Construction
• In-plant transfer
• Tank truck
• Dry cement delivery

Type of couplings:
• Cam and groove
• Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Material Handling**

**Slurry & Abrasive Resistant**

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**EHM005**

**Hard Wall Material Handling Suction & Discharge**

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Weather and ozone resistant synthetic rubber

**Application:**
- For suction and discharge of abrasive materials including barite bentonite

**Markets:**
- Construction
- In-plant transfer
- Tank truck
- Bottling plant
- Coal plant
- Well service
- Oil and gas exploration

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

---

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length** |
---|---|---|---|---|---|---|---|---|
| EHM005-64- | 101,6 | 101,6 | 123 | 101,6 | 123 | 4.84 | 10,5 | 150 | 41 | 600 | 1020 | 40.16 | 80,0 | 24 | 5,37 | 3,61 | 100 |
| EHM005-80- | 127,0 | 127,0 | 149 | 127,0 | 149 | 5.87 | 10,5 | 150 | 41 | 600 | 1270 | 50.00 | 80,0 | 24 | 6,97 | 4,68 | 100 |
| EHM005-96- | 152,4 | 152,4 | 174 | 152,4 | 174 | 6.85 | 10,5 | 150 | 41 | 600 | 1520 | 59.84 | 80,0 | 24 | 8,71 | 5,85 | 100 |

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Material Handling
Slurry & Abrasive Resistant

**EHK012**

**Abrasional Discharge**

**Construction:**
- **Tube:** Beige color, abrasion resistant natural rubber
- **Reinforcement:** High-tensile synthetic textile with anti-static copper wire
- **Cover:** Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

**Application:**
- For discharge of abrasive powders, dust, granules, sand, gravel, and cement

**Markets:**
- Construction
- In-plant transfer
- Tank truck
- Dry cement delivery

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Type of couplings:**
- Cam and groove
- Combination nipple

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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Material Handling
Slurry & Abrasive Resistant

**EHM004**

**Soft Wall Material Handling Discharge**

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with anti-static copper wire
- **Cover:** Weather and ozone resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For discharge of abrasive materials including barite bentonite

**Markets:**
- Construction
- In-plant transfer
- Tank truck
- Bottling plant
- Coal plant
- Well service
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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Material Handling
Slurry & Abrasive Resistant

EHK011

Abrasão Gravity Fed

Construction:
Tube: Natural rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For discharge of abrasive materials without pressure

Markets:
• Construction
• Dry cement delivery

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**EHK004**

**Channeled Dry Bulk Suction & Discharge**

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Channeled, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
- -40°C to +70°C
  (-40°F to +158°F)

**Application:**
- For suction and discharge of dry bulk materials, sand, gravel, dry cement

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Material Handling – Dry Material**

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D. mm</th>
<th>Hose O.D. mm</th>
<th>Max Operating Pressure bar</th>
<th>Burst Pressure bar</th>
<th>Minimum Bend Radius mm</th>
<th>Vacuum kPa</th>
<th>Weight kg/m</th>
<th>Length ft</th>
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*Abrasion loss value acc. DIN53516 ≤60mm³*

---

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Corrugated, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For suction and discharge of dry bulk materials, sand, gravel, dry cement

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

**EHK003**

**Corrugated Dry Bulk Suction & Discharge**

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<tr>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>in</td>
<td>bar psi</td>
<td>kPa in/Hg</td>
<td>mm in</td>
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<td>lbs/ft</td>
<td>ft</td>
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*Abrasion loss value acc. DIN53516 ≤60mm³
**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For suction and discharge of dry bulk materials, sand, gravel, dry cement

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### EHK002 Dry Bulk Suction & Discharge

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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>mm</td>
<td>in</td>
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<td>psi</td>
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<td>psi</td>
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*Abrasion loss value acc. DIN53516 ≤60mm²
## EHK010

### Dry Bulk Suction & Discharge

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For suction and discharge of dry bulk materials, sand, gravel, dry cement

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Material Handling – Dry Material

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

### Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length

<table>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum Pressure</th>
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<th>Length</th>
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*Abrasion loss value acc. DIN53516 ≤60mm³*
Material Handling
Dry Material

EHKO16  Dry Bulk Discharge

Construction:
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with anti-static copper wire
Cover: Abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• For suction and discharge of dry bulk materials, sand, gravel, dry cement

Markets:
• Construction
• Cement
• Swimming pool

Type of couplings:
• Cam and groove
• Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>bar</td>
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*Abrasion loss value acc. DIN53516 ≤60mm³

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
### EHK001

**Dry Bulk Flat Discharge**

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C  
(-40°F to +158°F)

**Application:**
- For discharge of dry cement and abrasive materials

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Abrasion loss value acc. DIN53516 ≤60mm³*
Material Handling
Dry Material

H0521

WILDCAT™ Heavy Duty Dry Material
formerly LYNX

Construction:
Tube: 1/4” tube thickness natural rubber blend
Reinforcement: 2-ply textile and conductive copper anti-static wire
Cover: SBR

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• Transfer of dry bulk
• Discharge of abrasive material
• Transfer of bottle caps
• Transfer of cleaning agents

Markets:
• In-plant transfers
• Tank truck
• Bottling plant
• Coal plant
• Dry cement operations
• Well service

Type of couplings:
• Cam and groove
• Combination nipple

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Contact coupling manufacturer for attachment procedure and other coupling recommendations.
Material Handling
Dry Material

H0319  WILDCAT™ Soft Wall Dry Material
formerly LYNX

**Construction:**
- **Tube:** 3/16” tube thickness natural rubber blend
- **Reinforcement:** 2-ply textile and conductive copper anti-static wire
- **Cover:** NR blend

**Application:**
- Transfer of dry bulk
- Discharge of abrasive material
- Transfer of bottle caps
- Transfer of cleaning agents

**Markets:**
- In-plant transfers
- Tank truck
- Bottling plant
- Coal plant
- Dry cement operations
- Well service

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Material Handling
Dry Material

H0349 WILDCAT™ Hot Air Transfer

Construction:
 Tube: EPDM
 Reinforcement: Textile with dual helical wires
 Cover: Pin-pricked EPDM

Operating temperature:
-34°C to +177°C
(-30°F to +300°F)
Intermittent +350°F

Application:
• Hot air blower hose
• Hot, dry, non-oily applications

Markets:
• Construction
• In-plant transfers
• Tank truck
• Dry cement delivery

Type of couplings:
• Cam and groove
• Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Material Handling

**Dry Material**

**EHM003 Hot Air Blower**

**Construction:**
- **Tube:** EPM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM

**Operating temperature:**
- -40°C to +180°C
- Intermittent to 200°C (-40°F to +356°F)

**Application:**
- Hot air blower hose
- Hot, dry, non-oily applications

**Markets:**
- Construction
- In-plant transfers
- Tank truck
- Dry cement delivery

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Material Handling
Sandblast

**H0034**

**WILDCAT™ Sandblast**
formerly Concord Sandblast

**Construction:**
- **Tube:** Natural rubber
- **Reinforcement:** 4-ply textile
- **Cover:** SBR

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- Conveys sand or shot for cleaning purposes
- Conveys sand from sandblast equipment to clean steel or concrete before painting or sealing

**Markets:**
- Construction
- Metal working
- Ship building

**Type of couplings:**
- Sandblast couplings that attach to the O.D. of hose

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Specifications

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*Abrasion loss value acc. DIN53516 ≤60mm³
Material Handling
Sandblast

EHC502
Sandblast 2-ply – 60mm³
TS5928-EN ISO 3861

Construction:
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with anti-static copper wire
Cover: Pin-pricked synthetic rubber

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Application:
• Conveys sand or shot for cleaning purposes
• Conveys sand from sandblast equipment to clean steel or concrete before painting or sealing

Markets:
• Construction
• Metal working
• Ship building

Type of couplings:
• Sandblast couplings that attach to the O.D. of hose
Contact coupling manufacturer for attachment procedure and other coupling recommendations

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

*Abrasion loss value acc. DIN53516 ≤60mm³

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Material Handling
Sandblast

EHC501

Sandblast – 35mm³
TS5928 - EN ISO 3861

Construction:
Tube: Static dissipating synthetic rubber
Reinforcement: High-tensile synthetic textile with anti-static copper wire
Cover: Pin-pricked synthetic rubber

Application:
- Conveys sand or shot for cleaning purposes
- Conveys sand from sandblast equipment to clean steel or concrete before painting or sealing

Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

Markets:
- Construction
- Metal working
- Ship building

Type of couplings:
- Sandblast couplings that attach to the O.D. of hose

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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*Abrasion loss value acc. DIN53516 ≤35mm³
Material Handling

Sandblast

**EHC500**

Sandblast – 60mm³

TS 5928 - EN ISO 3861

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with anti-static copper wire
- **Cover:** Pin-pricked synthetic rubber

**Application:**
- Conveys sand or shot for cleaning purposes
- Conveys sand from sandblast equipment to clean steel or concrete before painting or sealing

**Markets:**
- Construction
- Metal working
- Ship building

**Type of couplings:**
- Sandblast couplings that attach to the O.D. of hose

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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*Abrasions loss value acc. DIN53516 ≤60mm³
Material Handling
Concrete, plaster and grout

EHK007

MARAUDER™ Heavy Duty Concrete Pumping

Construction:
Tube: Abrasion resistant natural and CBR rubber
Reinforcement: High-tensile steel cords
Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +70°C (-40°F to +158°F)

Application:
• High-pressure concrete pumping

Markets:
• Construction
• Cement placement

Type of couplings:
• Victaulic male NPT
  Contact coupling manufacturer for attachment procedure and other coupling recommendations.

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<th>Hose O.D.</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Material Handling**

**Concrete, plaster and grout**

---

**EHK008**

**Concrete Vibration**

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
- -40°C to +70°C
  (-40°F to +158°F)

**Application:**
- For submerged vibrators
- For use to help prevent air bubbles in concrete liquid projected by hand vibrating

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Contact coupling manufacturer for attachment procedure and other coupling recommendations.

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### Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Weight Length

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**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- **Tube:** Abrasion resistant natural rubber
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For high-pressure spraying plaster, grout, sand, gypsum, and ready mixed concrete

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Victaulic male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Material Handling – Concrete, Plaster and Grout**

---

**EHK006**

**MARAUDER™ Plaster and Grout Spraying**

---

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<th>Burst Pressure</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³
Material Handling
Concrete, plaster and grout

EHK005

Plaster and Grout Spraying

**Construction:**
- Tube: Abrasion resistant synthetic rubber
- Reinforcement: High-tensile synthetic textile and anti-static copper wire
- Cover: Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-40°C to +70°C  
(-40°F to +158°F)

**Application:**
- For high-pressure spraying plaster, grout, sand, gypsum, and ready mixed concrete

**Markets:**
- Construction
- Cement
- Swimming pool

**Type of couplings:**
- Victaulic male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Product available in GY-gray and YW-yellow.

* Abrasion loss value acc. DIN53516 ≤60mm³

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Plaster and Grout Spraying

**EHK029**

**Construction:**
- Tube: NR/SBR Concrete
- Reinforcement: High-tensile synthetic textile and anti-static copper wire
- Cover: NR/SBR Sandblast cover

**Operating temperature:**
-40°C to +70°C (-40°F to +158°F)

**Application:**
- Construction
- Cement

**Markets:**
- Construction

**Type of couplings:**
- Victaulic Male NPT
- Mortar couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Material Handling – Concrete, Plaster and Grout**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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</table>
Eaton industrial hose reminder
Hose selection

Selection of hose
Selection of the proper Eaton Industrial hose for an application is essential to the proper operation and safe use of the hose and related equipment. Inappropriate hose selection may result in hose leakage, bursting, or other failure which may cause bodily injury or property damage from spraying fluids or flying projectiles. To avoid serious bodily injury or property damage resulting from selection of the wrong hose, carefully review the information in this catalog. Some of the factors to consider in proper hose selection are known as STAMPED:

S - Size, (I.D., O.D. and length)
T - Temperature of material conveyed and environmental
A - Application, the conditions of use
M - Material being conveyed, type and concentration
P - Pressure to which the assembly will be exposed
E - Ends: style, type, orientation, attachment method, etc.
D - Delivery testing, quality, packaging and delivery requirements

These factors and the supplemental information contained in this catalog should be considered in selecting the proper hose for your application. If you have any questions regarding the proper hose for your application, please contact Eaton for North America, Eaton Technical Support 1-888-258-0222 for global support contact your local Eaton Technical Representative.

Notes
Oil and Gas Exploration

**Well Service**
EC556 Blowout Preventer Hose ........................................ G-4

**Discharge**
EHP003 Heavy Duty Oilfield Liquid Mud Discharge ........ G-11

**Suction and Discharge**
EHM005 Hard Wall Material Handling S & D ................. G-5
EHP005 Hard Wall Oilfield S & D ................................. G-6
EHP004 Heavy Duty Oilfield Liquid Mud S & D ........ G-7
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EHP009 Oilfield Vacuum .................................................. G-9
EHP002 Oilfield Mud S & D ............................................. G-10
### Oil and Gas Exploration

**Well Service**

**EC556 Blowout Preventer**

- **Application:** Prevention of pressure escape at the wellhead during drilling, on-shore oil and gas exploration
- **Tube:** Oil-resistant nitrile
- **Reinforcement:** High-tensile steel wire
- **Cover:** Flame-resistant rubber
- **Temp:** -40°C to +100°C, (-40°F to +212°F)
- **Pressure:** 350 bar / 5000 psi

**Suction and Discharge**

**EHP005 Heavy Duty Oilfield S & D**

- **Application:** Suction and discharge of high pressure liquid mud, mineral oils, etc.
- **Tube:** CR blend
- **Reinforcement:** Nitrile blend with dual steel helical wires
- **Cover:** SBR blend
- **Temp:** -35°C to +70°C, (-31°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**EHP007 Oilfield Suction**

- **Application:** Suction and discharge of high pressure liquid mud or crude oil, and petroleum products with aromatic content up to 50%
- **Tube:** Nitrile blend
- **Reinforcement:** High-tensile synthetic textile with dual steel helical wire and anti-static copper wire
- **Cover:** Nitrile blend
- **Temp:** -35°C to +70°C, (-31°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**EHP009 Oilfield Vacuum**

- **Application:** Transfer applications drilling mud or crude oil. Not recommended for refined petroleum products
- **Tube:** Nitrile blend
- **Reinforcement:** High-tensile synthetic textile with dual steel helical wires
- **Cover:** Corrugated Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)
- **Pressure:** 10,5 bar / 150 psi

**EHP002 Oilfield Mud S & D**

- **Application:** Transfer drilling mud. Not for refined petroleum products
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile, single steel or dual helical wires
- **Cover:** SBR blend
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**EHM005 Hard Wall Material Handling S & D**

- **Application:** Suction and discharge of abrasive materials, barite bentonite
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +70°C, (-40°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**Discharge**

**EHP007 Heavy Duty Oilfield Liquid Mud Discharge**

- **Application:** Discharge of high pressure liquid mud, mineral oils, etc.
- **Tube:** CR blend
- **Reinforcement:** High-tensile synthetic textile with and anti-static copper wire
- **Cover:** CR blend
- **Temp:** -35°C to +80°C, (-31°F to +176°F)
- **Pressure:** 41 bar / 600 psi
Oil and Gas Exploration
Introduction and safety information

Oil and Gas Exploration Hose -Safety information

Important!

⚠️ WARNING: Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ WARNING: Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ WARNING: Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ WARNING: Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ WARNING: Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

⚠️ WARNING: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

Pressure and vacuum rated

- Eaton manufactures braided and spiral hoses using the latest technology in wire and synthetic yarns. As a result, Eaton hoses are pressure and vacuum resistant, as well as flexible and easy to handle.

Quality assured

- Value through design and quality control assures you of maximum performance from Eaton products.
Construction:
Tube: Black, oil-resistant synthetic rubber
Reinforcement: Multiple high-tensile wire spiral reinforcement layers
Cover: Red, specially compounded flame-resistant

Operating temperature:
-40°C to +100°C (-40°F to +212°F)

Application:
• For prevention of pressure escape at the wellhead during drilling-completion operations
• Critical component of blowout preventer system
• On-shore oil and gas exploration

Markets:
• Oil and gas exploration
• Well service
• Fracking industry

Agency Listings:
Lloyd's certified to API 16D flame test requirements

Type of couplings:
• Internal Skive Crimp (ISC) 1W series fitting for all sizes -12,-16-20,-24

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Oil and Gas Exploration
Suction & Discharge

### EHM005

**Hard Wall Material Handling Suction & Discharge**

#### Construction:
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** Weather and ozone resistant synthetic rubber

#### Application:
- For suction and discharge of abrasive materials including barite bentonite

#### Markets:
- Construction
- In-plant transfer
- Tank truck
- Bottling plant
- Coal plant
- Well service
- Oil and gas exploration

#### Operating temperature:
-40°C to +70°C
(-40°F to +158°F)

#### Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>bar</td>
<td>psi</td>
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</table>
# EHP005

**Hard Wall Oilfield Suction & Discharge**

**Construction:**
- **Tube:** NBR
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** CR rubber

**Operating temperature:**
-35°C to +80°C
(-31°F to +176°F)

**Application:**
- For suction and discharge of heavy-duty petroleum products

For use with petroleum products with aromatic content up to 50%

**Markets:**
- Oil rig platform
- Tankers
- Barges
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
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<th># Part No.</th>
<th>Hose I.D. mm</th>
<th>Hose O.D. mm</th>
<th>Max Operating Pressure Max bar/psi</th>
<th>Burst Pressure Bar/psi</th>
<th>Minimum Bend Radius mm/in</th>
<th>Vacuum Pressure kPa/in/Hg</th>
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Oil and Gas Exploration
Suction & Discharge

EHP004
Heavy Duty Oilfield Liquid Mud Suction & Discharge

Construction:
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile with dual steel helical wire and anti-static copper wire
Cover: CR rubber

Operating temperature:
-35°C to +80°C
(-31°F to +176°F)

Application:
- For suction and discharge of high pressure liquid mud, mineral oils, etc.

Markets:
- Oil rig platform
- Oil and gas exploration

Type of couplings:
- Cam and Groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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<th>Part No.</th>
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<th>Hose O.D. mm</th>
<th>Max Operating Pressure bar</th>
<th>Burst Pressure bar</th>
<th>Minimum Bend Radius mm</th>
<th>Vacuum kPa</th>
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</table>
Oil and Gas Exploration

Suction & Discharge

EATON Industrial Hose MTO Catalog – NA     E-HOIN-BB012-E  2021

Oilfield Suction

Construction:
- Tube: Nitrile blend
- Reinforcement: High-tensile synthetic textile with a single steel helical wire for smaller sizes and dual helical wire available on 8.00” and 10.00” and an anti-static copper wire
- Cover: Nitrile/PVC

Application:
- For transfer applications such as drilling mud or crude oil
- For use with petroleum products with aromatic content up to 50%

Markets:
- Oil and gas exploration
- Well service
- Fracking industry

Type of couplings:
- Cam and groove
- Male NPT
- Unions

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Operating temperature:
- -35°C to +70°C
  (-31°F to +158°F)

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### EHP007

<table>
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<td>in</td>
<td>bar   psi</td>
<td>bar psi</td>
<td>mm     in</td>
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</table>
Oil and Gas Exploration
Suction & Discharge

EHP009 Oilfield Vacuum

Construction:
- Tube: Nitrile blend
- Reinforcement: High-tensile synthetic textile with dual steel helical wires
- Cover: Corrugated SBR blend

Operating temperature:
-30°C to +80°C
(-22°F to +176°F)

Application:
- For transfer applications such as drilling mud or crude oil
- Not recommended for refined petroleum products

Markets:
- Oil and gas exploration
- Well service
- Fracking industry

Type of couplings:
- Cam and groove
- Male NPT
- Unions

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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</table>

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Oil and Gas Exploration

EHP002

Oilfield Mud Suction & Discharge

Construction:
- Tube: Synthetic and natural rubber blend
- Reinforcement: High-tensile synthetic textile and a single steel helical wire available on smaller sizes and dual helical wires available for 8.00” through 12.00”
- Cover: SBR blend

Application:
- For transfer applications such as drilling mud
- Not recommended for refined petroleum products

Markets:
- Oil and gas exploration
- Well service
- Fracking industry

Type of couplings:
- Cam and groove
- Male NPT
- Unions

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Operating temperature:
-25°C to +70°C (-13°F to +158°F)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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</tbody>
</table>

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Oil and Gas Exploration

Discharge

EHP003

Heavy Duty Oilfield Liquid Mud Discharge

Construction:
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile with and anti-static copper wire
Cover: CR rubber

Operating temperature:
-35°C to +80°C
(-31°F to +176°F)

Application:
• For discharge of high pressure liquid mud, mineral oils, etc.

Markets:
• Oil rig platform
• Oil and gas exploration

Type of couplings:
• Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
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Aircraft Refueling

**EHP002 Aircraft Refueling Discharge**

**Application:** Ground refueling of aircraft, up to 30% aromatic content: EN1361 Type C
**Tube:** NBR rubber
**Reinforcement:** High-tensile synthetic textile braid
**Cover:** CR blend
**Temp:** -30°C to +65°C, (-22°F to +149°F)
**Pressure:** 20.7 bar / 300 psi

**EHP003 Aircraft Refueling Suction & Discharge**

**Application:** Ground aircraft refueling S & D, up to 30% aromatic content: EN1365 Type S
**Tube:** Nitrile blend
**Reinforcement:** High-tensile synthetic textile with a dual steel helical wire, and dual anti-static copper wire
**Cover:** CR blend
**Temp:** -30°C to +82°C, (-22°F to +180°F)
**Pressure:** 10.5 bar / 150 psi

Dock

**EHP006 & EHP007 Light Duty Dock Oil S & D**

**Application:** S & D of petroleum products, up to 50% aromatic content: EN1765 Type S
**Tube:** NBR
**Reinforcement:** High-tensile synthetic textile dual steel helical wire and anti-static copper wire
**Cover:** CR blend
**Temp:** -30°C to +82°C, (-22°F to +180°F)
**Pressure:** 10.5 bar / 150 psi

Dispensing

**EHP011 Petroleum Dispensing**

**Application:** Gasoline dispensing: UL 330 Type 3
**Tube:** NBR blend
**Reinforcement:** 1-wire braid
**Cover:** NBR blend
**Temp:** -40°C to +85°C, (-40°F to +185°F)

**EHP010 Petroleum Dispensing**

**Application:** Gasoline dispensing: TS EN 1360 Type 3-M-NT
**Tube:** NBR blend
**Reinforcement:** 1-wire braid
**Cover:** CR blend
**Temp:** -30°C to +55°C, (-22°F to +131°F)
**Pressure:** 16 bar / 232 psi

**EHP009 Petroleum Dispensing**

**Application:** Gasoline dispensing: UL 330 Type 1
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile and anti-static copper wire
**Cover:** NBR blend
**Temp:** -40°C to +85°C, (-40°F to +185°F)

**EHP008 Petroleum Dispensing**

**Application:** Gasoline dispensing: TS EN 1360 Type 1-M-NT
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile and anti-static copper wire
**Cover:** CR blend
**Temp:** -30°C to +55°C, (-22°F to +131°F)
**Pressure:** 16 bar / 232 psi

**EHP022 Heavy Duty Petroleum/Oil Suction & Discharge**

**Application:** High-pressure suction and discharge of petroleum products with aromatic content up to 50%
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
**Cover:** NBR blend (JMA Class A)
**Temp:** -35°C to +70°C, (-31°F to +158°F)
**Pressure:** 20.7 bar / 300 psi

**EHP018 Petroleum/Oil Suction & Discharge**

**Application:** Suction and discharge of petroleum products: EN1761 Type SD
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wires
**Cover:** NBR blend
**Temp:** -30°C to +70°C, (-22°F to +158°F)
**Pressure:** 16 bar / 230 psi

**EHP014 Petroleum/Oil Suction & Discharge**

**Application:** Suction and discharge of petroleum products: EN1360 Type 2 CAT M
**Tube:** NBR
**Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wires
**Cover:** Channeled CR blend
**Temp:** -30°C to +70°C, (-22°F to +158°F)
**Pressure:** 16 bar / 230 psi

**EHP002 High Pressure Petroleum/Oil S & D**

**Application:** Suction & discharge of petroleum products
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile helical wire and anti-static copper wire
**Cover:** NBR blend
**Temp:** -35°C to +70°C, (-31°F to +158°F)
**Pressure:** 17.2 bar / 250 psi

**EHP019 PUMA™ Flat Corrugated Suction & Discharge**

**Application:** Suction & discharge of petroleum products
**Tube:** NBR blend
**Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wire
**Cover:** Flat corrugated NBR blend
**Temp:** -40°C to +82°C, (-40°F to +180°F)
**Pressure:** 10.5 bar / 150 psi
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<th>Model</th>
<th>Description</th>
<th>Application</th>
<th>Tube</th>
<th>Reinforcement</th>
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<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile with anti-static copper wire</td>
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<td>20,7 bar / 300 psi</td>
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<td>Channeled Petroleum/Oil S &amp; D</td>
<td>Suction and discharge of petroleum products with aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
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<td>10,5 bar / 150 psi</td>
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<td>NBR blend</td>
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<td>10,5 bar / 150 psi</td>
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<td>Suction &amp; discharge of petroleum products with aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-40°C to +90°C (-4°F to +194°F)</td>
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<td>EHP517</td>
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<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
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<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
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<td>10,5 bar / 150 psi</td>
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<td>Suction &amp; discharge of petroleum products</td>
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<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
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<td>NBR blend</td>
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<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
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<td>PUMA Flexible flat corrugated S &amp; D</td>
<td>Suction &amp; discharge of petroleum products with aromatic content up to 50%</td>
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<td>NBR blend</td>
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<td>-35°C to +70°C (-31°F to +158°F)</td>
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<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>16 bar / 230 psi</td>
</tr>
<tr>
<td>EHP501</td>
<td>Petroleum/Oil Discharge</td>
<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
</tr>
<tr>
<td>EHP500</td>
<td>Petroleum/Oil Bunkering Delivery</td>
<td>Suction &amp; discharge of petroleum products</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-35°C to +70°C (-31°F to +158°F)</td>
<td>20,7 bar / 300 psi</td>
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<td>16 bar / 230 psi</td>
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<tr>
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<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>16 bar / 230 psi</td>
</tr>
<tr>
<td>EHP501</td>
<td>Petroleum/Oil Discharge</td>
<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
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<td>EHP500</td>
<td>Petroleum/Oil Bunkering Delivery</td>
<td>Suction &amp; discharge of petroleum products</td>
<td>NBR blend</td>
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<td>20,7 bar / 300 psi</td>
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<tr>
<td>EHP515</td>
<td>Petroleum/Oil Discharge</td>
<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
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<td>16 bar / 230 psi</td>
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<td>EHP517</td>
<td>Petroleum/Oil Discharge</td>
<td>Discharge of petroleum products, aromatic content up to 50%</td>
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<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>16 bar / 230 psi</td>
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<td>EHP501</td>
<td>Petroleum/Oil Discharge</td>
<td>Discharge of petroleum products, aromatic content up to 50%</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile</td>
<td>-30°C to +70°C (-22°F to +158°F)</td>
<td>10,5 bar / 150 psi</td>
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<td>EHP500</td>
<td>Petroleum/Oil Bunkering Delivery</td>
<td>Suction &amp; discharge of petroleum products</td>
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<td>High-tensile synthetic textile</td>
<td>-35°C to +70°C (-31°F to +158°F)</td>
<td>20,7 bar / 300 psi</td>
</tr>
</tbody>
</table>
Petroleum hose - Safety information

**Important!**

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ **WARNING:** Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ **WARNING:** If cover blisters exist, be careful not to pop them. If the hose was damaged in such a way that material was allowed to leak between the cover and inner tube, the blisters may contain this material. If the material is hazardous and splatters when the blisters are popped, it could cause serious physical injury.

⚠️ **WARNING:** Kinks can cause hose to burst, leading to bodily harm.

---

**Environmental resistance**

- The tube and cover materials of the Eaton industrial hose are designed to assure maximum life and top value. They are sophisticated hoses for demanding jobs.

**Remove the guesswork from selecting, buying and using critical application hose**

- When you are handling hazardous material, it is critical to select the proper hose. Eaton products’ high visibility branding and color coding removes the guesswork for hose selection.

**Built to make work faster, easier and safer**

- Moving and connecting hose several times a day isn’t easy work. Each of the industrial hose is designed to be easy to handle as safety and job performance will allow.

**The Eaton reputation for quality**

- Your assurance of dependable performance.
Petroleum
Aircraft Refueling

**EHJ002**  
**Aircraft refueling discharge**  
EN1361 Type C

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile braid
- **Cover:** CR blend

**Operating temperature:**  
-30°C to +65°C  
(-22°F to +149°F)

**Application:**  
- For ground refueling of aircraft
- For use with petroleum products with aromatic content up to 30%

**Markets:**  
- Aircraft refueling

**Type of couplings:**  
- API couplings

**Refer to warnings and safety information in Section N.**  
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
<td>mm</td>
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<td>300</td>
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**Petroleum – Aircraft Refueling**

**EHJ003**

**Aircraft refueling suction & discharge**
EN1361 Type E

**Construction:**
- **Tube:** Nitrile blend
- **Reinforcement:** High-tensile synthetic textile with a dual steel helical wire for smaller sizes and dual helical wire and dual anti-static copper wire
- **Cover:** CR blend

**Application:**
- For ground refueling and fuel discharge of aircraft
- For use with petroleum products with aromatic content up to 30%

**Markets:**
- Aircraft refueling

**Type of couplings:**
- API couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<tr>
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<td>mm</td>
<td>bar psi</td>
<td>bar psi</td>
<td>mm</td>
<td>in</td>
<td>kPa</td>
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<td>2.64</td>
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<td>2.50</td>
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<td>4.84</td>
<td>20.7</td>
<td>300</td>
<td>83</td>
<td>1200</td>
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</tbody>
</table>
Petroleum Dock

**EHP506 & EHP507**

**Light Duty Dock Oil Suction & Discharge**
EN1765 Type S

**Construction:**
- **Tube:** NBR
- **Reinforcement:** High-tensile synthetic textile dual steel helical wire and anti-static copper wire
- **Cover:** CR blend

**Application:**
- For suction & discharge of petroleum products from tankers and barges bunkering services
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Tankers
- Barges

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<tr>
<td>EHP506-64-</td>
<td>101,6 mm</td>
<td>128 mm</td>
<td>5.04 bar</td>
<td>10.5 bar</td>
<td>41 psi</td>
<td>150 psi</td>
<td>500 kPa</td>
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<tr>
<td>EHP506-80-</td>
<td>127.0 mm</td>
<td>156 mm</td>
<td>6.14 bar</td>
<td>10.5 bar</td>
<td>41 psi</td>
<td>150 psi</td>
<td>650 kPa</td>
<td>25.59 in/Hg</td>
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<tr>
<td>EHP506-96-</td>
<td>152.4 mm</td>
<td>185 mm</td>
<td>7.28 bar</td>
<td>10.5 bar</td>
<td>41 psi</td>
<td>150 psi</td>
<td>700 kPa</td>
<td>29.53 in/Hg</td>
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<td>EHP506-128-</td>
<td>203.2 mm</td>
<td>239 mm</td>
<td>9.41 bar</td>
<td>10.5 bar</td>
<td>41 psi</td>
<td>150 psi</td>
<td>900 kPa</td>
<td>37.40 in/Hg</td>
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<tr>
<td>EHP506-160-</td>
<td>254.0 mm</td>
<td>293 mm</td>
<td>11.53 bar</td>
<td>10.5 bar</td>
<td>41 psi</td>
<td>150 psi</td>
<td>1200 kPa</td>
<td>47.24 in/Hg</td>
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**EHP507**

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<th>Hose I.D.</th>
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<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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<td>225 psi</td>
<td>500 kPa</td>
<td>19.68 in/Hg</td>
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<tr>
<td>EHP507-80-</td>
<td>127.0 mm</td>
<td>158 mm</td>
<td>6.22 bar</td>
<td>15.5 bar</td>
<td>225 psi</td>
<td>225 psi</td>
<td>650 kPa</td>
<td>25.59 in/Hg</td>
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<tr>
<td>EHP507-96-</td>
<td>152.4 mm</td>
<td>188 mm</td>
<td>7.40 bar</td>
<td>15.5 bar</td>
<td>225 psi</td>
<td>225 psi</td>
<td>750 kPa</td>
<td>29.53 in/Hg</td>
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<tr>
<td>EHP507-128-</td>
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<td>9.53 bar</td>
<td>15.5 bar</td>
<td>225 psi</td>
<td>225 psi</td>
<td>900 kPa</td>
<td>37.40 in/Hg</td>
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<tr>
<td>EHP507-160-</td>
<td>254.0 mm</td>
<td>296 mm</td>
<td>11.65 bar</td>
<td>15.5 bar</td>
<td>225 psi</td>
<td>225 psi</td>
<td>1200 kPa</td>
<td>47.24 in/Hg</td>
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</table>
Petroleum Dispensing

**EHP511**

**Petroleum Dispensing**

**UL 330 Type 3**

**Construction:**
- Tube: NBR blend
- Reinforcement: 1-wire braid
- Cover: NBR blend

**Operating temperature:**
-40°C to + 85°C
(-40°F to + 185°F)

**Application:**
- For gasoline dispensing

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Ship building

**Type of couplings:**
- Male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>kg/m</td>
<td>lbs/ft</td>
</tr>
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<td>EHP511-08BK-</td>
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<td>0.32</td>
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<tr>
<td>EHP511-10BK-</td>
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<td>25.4</td>
<td>3.50</td>
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<tr>
<td>EHP511-12BK-</td>
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**Construction:**
- Tube: NBR blend
- Reinforcement: 1-wire braid
- Cover: CR blend

**Operating temperature:**
-30°C to 55°C
(-22°F to 131°F)

**Application:**
- For gasoline dispensing

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Ship building

**Type of couplings:**
- Male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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**EHP510 Petroleum Dispensing**
TS EN 1360 Type 3-M-NT

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<tbody>
<tr>
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<td>12.7 0.50</td>
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<td>16.0 232</td>
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<td>EHP510-10BK-</td>
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<td>48.0 696</td>
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</tbody>
</table>

Product also available BU-Blue, GN-Green, and RD-Red

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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
# Petroleum Dispensing

**EHP509 Petroleum Dispensing**

**UL 330 Type 1**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** NBR blend

**Operating temperature:**
-40°C to +85°C
(-40°F to +185°F)

**Application:**
- For gasoline dispensing

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Ship building

**Type of couplings:**
- Male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<td>mm</td>
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<td>lbs/ft</td>
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</table>
Petroleum Dispensing

**EHP508**

**Petroleum Dispensing**
TS EN 1360 Type 1-M-NT

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile and anti-static copper wire
- **Cover:** CR blend

**Operating temperature:**
-30°C to 55°C (-22°F to 131°F)

**Application:**
- For gasoline dispensing

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Ship building

**Type of couplings:**
- Male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No. Hose I.D.**

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<tr>
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<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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Product also available in BU-Blue, GR-Green or RD-Red.

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**
Petroleum Suction & Discharge

**EHP522**

**Heavy Duty Petroleum/Oil Suction & Discharge**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile with helical wire and anti-static copper wire
- **Cover:** NBR blend (RMA Class A)

**Application:**
- For high-pressure petroleum suction and discharge
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Tank truck
- Paper/pulp industry
- Oil exploration
- Ship building
- Batch plants

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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**Part No.** | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Minimum Bend Radius | Vacuum | Weight | Length
---|---|---|---|---|---|---|---|---
EHP522-16- | 25.4 | 1.00 | 36.8 | 1.45 | 20.7 | 300 | 62 | 900 | 85 | 3.35 | 85 | 25 | 0.79 | 0.53 | 100
EHP522-20- | 31.8 | 1.25 | 44.0 | 1.73 | 20.7 | 300 | 62 | 900 | 100 | 3.94 | 85 | 25 | 1.04 | 0.70 | 100
EHP522-24- | 38.1 | 1.50 | 52.2 | 2.06 | 20.7 | 300 | 62 | 900 | 125 | 4.98 | 85 | 25 | 1.53 | 1.03 | 100
EHP522-28- | 44.5 | 1.75 | 59.3 | 2.33 | 20.7 | 300 | 62 | 900 | 175 | 6.89 | 85 | 25 | 1.78 | 1.20 | 100
EHP522-32- | 50.8 | 2.00 | 66.8 | 2.63 | 20.7 | 300 | 62 | 900 | 200 | 7.87 | 85 | 25 | 2.25 | 1.51 | 100
EHP522-40- | 63.5 | 2.50 | 79.9 | 3.15 | 20.7 | 300 | 62 | 900 | 250 | 9.84 | 85 | 25 | 2.82 | 1.90 | 100
EHP522-48- | 76.2 | 3.00 | 92.0 | 3.62 | 20.7 | 300 | 62 | 900 | 300 | 11.81 | 85 | 25 | 3.25 | 2.19 | 100
EHP522-56- | 90.0 | 3.50 | 109.2 | 4.30 | 20.7 | 300 | 62 | 900 | 340 | 13.39 | 85 | 25 | 4.53 | 3.04 | 100
EHP522-64- | 101.6 | 4.00 | 120.0 | 4.72 | 20.7 | 300 | 62 | 900 | 440 | 17.32 | 85 | 25 | 4.88 | 3.28 | 100
EHP522-80- | 127.0 | 5.00 | 149.8 | 5.90 | 20.7 | 300 | 62 | 900 | 580 | 22.83 | 80 | 24 | 7.32 | 4.92 | 100
EHP522-96- | 152.4 | 6.00 | 177.2 | 6.98 | 20.7 | 300 | 62 | 900 | 700 | 27.56 | 80 | 24 | 9.92 | 6.66 | 100

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**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Petroleum
Suction & Discharge

EHP518
Petroleum/Oil Suction & Discharge
EN12115 Type SD

Construction:
Tube: NBR
Reinforcement: High-tensile synthetic textile steel helical wires and dual anti-static copper wires
Cover: NBR blend

Operating temperature:
-20°C to +70°C
(-4°F to +158°F)

Application:
• For suction and discharge of petroleum
For use with petroleum products with aromatic content up to 50%

Markets:
• Petroleum industry
• Paper/pulp industry
• Oil and gas exploration
• Ship building
• Tank trucks
• Waste hauling

Type of couplings:
• Cam and groove
• Combination nipple
Contact coupling manufacturer for attachment procedure and other coupling recommendations

Petroleum/Oil Suction & Discharge
EN12115 Type SD

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
# Petroleum — Suction & Discharge

**EHP516**

**Petroleum/Oil Suction & Discharge**

**EN1761 Type SD**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wires
- **Cover:** NBR blend

**Application:**
- For suction and discharge of petroleum products
  - For use with petroleum products with aromatic content up to 50%

**Operating temperature:**
-30°C to +70°C  
(-22°F to +158°F)

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum Pressure</th>
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Petroleum
Suction & Discharge

**EHP514**

**Petroleum/Oil Suction & Discharge**
EN1360 Type 2 CAT M

**Construction:**
- **Tube:** NBR
- **Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wires
- **Cover:** Channeled CR blend

**Application:**
- For suction and discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Operating temperature:**
-30°C to +70°C
(-22°F to +158°F)

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Refer to warnings and safety information in Section N.**
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length

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<th>Part No.</th>
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<th>Burst Pressure</th>
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**EHP502**

**High Pressure Petroleum/Oil Suction & Discharge**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile helical wire and anti-static copper wire
- **Cover:** NBR blend

**Operating temperature:**
- -35°C to +70°C
  (-31°F to +158°F)

**Application:**
- For suction and discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Part No. Specifications

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EHP521  

**PUMA™ Cold Temperature Suction & Discharge**

**Construction:**
- **Tube:** NBR
- **Reinforcement:** High-tensile synthetic textile with dual helical wires and anti-static copper wire
- **Cover:** Flat corrugated NBR blend

**Operating temperature:**
-55°C to +80°C  
(-67°F to +176°F)

**Application:**
- For suction & discharge of petroleum products

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**
- EHP521-48
- EHP521-64

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<th>Minimum Bend Radius</th>
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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Petroleum Suction & Discharge

EHP519

**PUMA™ Flat Corrugated Suction & Discharge**

**Construction:**
- Tube: NBR blend
- Reinforcement: High-tensile synthetic textile dual steel helical wires and dual anti-static copper wire
- Cover: Flat corrugated NBR blend

**Operating temperature:**
-40°C to +82°C  
(-40°F to +180°F)

**Application:**
- For suction and discharge of petroleum

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling
- Well service

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Petroleum
Suction & Discharge

H0363

PUMA™ Suction & Discharge

**Construction:**
- **Tube:** Vinyl nitrile blend
- **Reinforcement:** 2- or 4-ply fiber with dual helical wires and anti-static copper wire
- **Cover:** Vinyl nitrile blend

**Application:**
- For suction and discharge of petroleum products

**Markets:**
- Tank truck
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Batch plants

**Operating temperature:**
-40°C to +82°C
(-40°F to +180°F)

**Application:**
- For suction and discharge of petroleum products

**Markets:**
- Tank truck
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Batch plants

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### H0363

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*50 ft. lengths available on select items
# Petroleum

## Suction & Discharge

### EHP505

**Channelled Petroleum/Oil Suction & Discharge**

**Construction:**
- Tube: NBR blend
- Reinforcement: High-tensile synthetic textile dual steel helical wires and dual anti-static copper wire
- Cover: Channeled CR blend

**Operating temperature:**
-30°C to +70°C
(-22°F to +158°F)

**Application:**
- For suction and discharge of petroleum
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Petroleum
Suction & Discharge

**EHP503**

**Flat Corrugated Tank Truck**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile with a single steel helical wire and anti-static copper wire
- **Cover:** Flat corrugated NBR blend

**Operating temperature:**
-35°C to +70°C
(-31°F to +158°F)

**Application:**
- For suction and discharge of petroleum products

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**

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*Product available in Red also, use RD as a color indicator when ordering

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Petroleum – Suction & Discharge

**EHP512**

**Corrugated Petroleum/Oil Suction & Discharge**

- **Construction:**
  - **Tube:** NBR blend
  - **Reinforcement:** High-tensile synthetic textile helical wire and anti-static copper wire
  - **Cover:** Corrugated NBR blend

- **Application:**
  - For suction and discharge of petroleum products
  - For use with petroleum products with aromatic content up to 50%

- **Operating temperature:**
  - -30°C to +70°C
  - (-22°F to +158°F)

- **Markets:**
  - Petroleum industry
  - Paper/pulp industry
  - Oil and gas exploration
  - Ship building
  - Tank trucks
  - Waste hauling

- **Type of couplings:**
  - Cam and groove
  - Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Product also available in RD-Red

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*Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.*
Petroleum
Suction & Discharge

**EHP542**

**PUMA™ Flexible Flat Corrugated Suction & Discharge**

**Construction:**
- **Tube:** Smooth oil resistant nitrile tube
- **Reinforcement:** High tensile synthetic textile with dual steel helical wire and anti-static copper wire
- **Cover:** Flat corrugated NBR blend

**Operating temperature:**
-40°C to +90°C
-(-40°F to +194°F)

**Application:**
- For suction and discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Tank truck
- Oil and gas exploration
- Well service

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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<thead>
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<th>Burst Pressure</th>
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Petroleum Suction & Discharge

**EHP150 Petroleum/oil Suction & Discharge**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile with a single steel helical wire and anti-static copper wire
- **Cover:** Abrasion and weather resistant NBR blend

**Operating temperature:**
-35°C to +82°C
(-31°F to +180°F)

**Application:**
- For suction and discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%.

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling
- Batch plants

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Refer to warnings and safety information in Section N.**
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### Part No. Specifications

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Petroleum
Suction & Discharge

EHP151
Petroleum/oil Suction & Discharge

Construction:
Tube: Nitrile
Reinforcement: High-tensile synthetic textile with a single steel helical wire and anti-static copper wire
Cover: Abrasion and weather resistant synthetic

Operating temperature:
-35°C to +82°C
(-31°F to +180°F)

Application:
• For suction and discharge of petroleum products
For use with petroleum products with aromatic content up to 50%.

Markets:
• Petroleum industry
• Paper/pulp industry
• Oil and gas exploration
• Ship building
• Tank trucks
• Waste hauling
• Batch plants

Type of couplings:
• Cam and groove
• Combination nipple
Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
## Petroleum Discharge

**EHP524**

**Petroleum/Oil Bunkering Delivery**

4 ton tensile load strength

### Construction:
- **Tube:** Black, oil and fuel resistant nitrile rubber
- **Reinforcement:** Synthetic textile fabrics. Two conductive copper wires
- **Cover:** Black, abrasion, ozone, weather, heat and oil resistant CR rubber

### Operating temperature:
-35°C to +100°C
(-31°F to +212°F)

### Application:
- For discharge of petroleum products

### Markets:
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

### Type of couplings:
- Flanges

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
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Petroleum Discharge

**EHP517 Petroleum/Oil Discharge**

TS EN12115 NBR Type D

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile and dual anti-static copper wire
- **Cover:** NBR blend

**Operating temperature:**
- -20°C to +70°C
  (-4°F to +158°F)

**Application:**
- For discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No. Hose I.D. Hose O.D. Max Operating Pressure Burst Pressure Minimum Bend Radius Weight Length**

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**Petroleum Discharge**

**EHP515 Petroleum/Oil Discharge**

**EN1761 Type D**

**Construction:**
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile and dual anti-static copper wire
- **Cover:** NBR blend

**Operating temperature:**
-20°C to +70°C  
(-4°F to +158°F)

**Application:**
- For discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

**Markets:**
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

**Type of couplings:**
- Cam and groove
- Combination nipple

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

### Specifications

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Petroleum
Discharge

EATON Industrial Hose MTO Catalog – NA     E-HOIN-BB012-E  2021

Petroleum – Discharge

EHP513

Petroleum/Oil Discharge
EN1360 Type 1

Construction:
Tube: NBR
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: CR blend

Operating temperature:
-30°C to +70°C (-22°F to +158°F)

Application:
• For discharge of petroleum products
For use with petroleum products with aromatic content up to 50%

Markets:
• Petroleum industry
• Paper/pulp industry
• Oil and gas exploration
• Ship building
• Tank trucks
• Waste hauling

Type of couplings:
• Cam and groove
• Combination nipple
Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
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<th>Part No.</th>
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<th>Hose O.D.</th>
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Petroleum Discharge

EHP504

High Pressure Petroleum Discharge

Construction:
- Tube: NBR blend
- Reinforcement: High-tensile synthetic textile and anti-static copper wire
- Cover: NBR blend

Application:
- For discharge of petroleum products
- For use with petroleum products with aromatic content up to 50%

Operating temperature:
-35°C to +70°C (-31°F to +158°F)

Markets:
- Petroleum industry
- Paper/pulp industry
- Oil and gas exploration
- Ship building
- Tank trucks
- Waste hauling

Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
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<th>#</th>
<th>Part No.</th>
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Petroleum Discharge

EHP501 Petroleum/Oil Discharge

Construction:
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: NBR blend

Operating temperature:
-30°C to +70°C (-22°F to +158°F)

Application:
• For discharge of petroleum products
  For use with petroleum products with aromatic content up to 50%

Markets:
• Petroleum industry
• Paper/pulp industry
• Oil and gas exploration
• Ship building
• Tank trucks
• Waste hauling

Type of couplings:
• Cam and groove
• Combination nipple
  Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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*Product available in GY - Gray and RD - Red
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Specialty

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Specialty

Fire Fighting

EHW018 Heavy Duty Fire Fighting Discharge

Application: Fire fighting vehicles: EN 1947:2002-1/CAT.II TYPE C-CLASS 1
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Synthetic rubber
Temp: -20°C to +70°C, (-4°F to +158°F)
Pressure: 41 bar / 600 psi

EHW017 Fire Fighting Discharge

Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Synthetic rubber
Temp: -20°C to +70°C, (-4°F to +158°F)
Pressure: 41 bar / 600 psi

EHW019 & EHW020 THERMORUB™ Fire Fighting

Application: Fire fighting applications in fire reels
Reinforcement: High-tensile synthetic textile
Cover: Thermorub compound
Temp: -5°C to +60°C, (+23°F to +140°F)
Pressure: 7,0-20,7 bar / 100-300 psi

EHW016 Fire Extinguisher

Application: Fire extinguishers
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Temp: -40°C to +120°C, (-40°F to +248°F)
Pressure: 20,7 bar / 300 psi

Steel Mill

EHN002 Steel Mill FG Cooling Water Transfer

Application: Cooling water transfer
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Impregnated synthetic rubber
Temp: -25°C to +75°C, (-13°F to +167°F)
Pressure: 7 bar / 100 psi

EHN003 Steel Mill Non-Flammable HD Cooling Water Transfer

Application: Discharge of cooling water
Tube: EPDM
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber and glass fiber
Temp: -40°C to +120°C, (-40°F to +248°F)
Pressure: 10,5 bar / 150 psi

EHN004 Steel Mill Heavy Duty White Cooling Water Transfer

Application: Discharge of cooling water
Tube: EPDM
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber and glass fiber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 10,5 bar / 150 psi

EHN005 Steel Mill Medium Duty Cooling Water Transfer

Application: Cooling water systems in steel mills and foundries
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber and 2 glass fiber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 6 bar / 85 psi

EHN006 Steel Mill Heavy Duty Ceramic Coated

Application: Transfer of water and hot water where hose needs to be resistant to heat
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: Ceramic coated EPDM rubber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 25 bar / 365 psi

EHN007 Steel Mill Fiberglass Steam Transfer

Application: Discharge of cooling water
Tube: EPM
Reinforcement: High-tensile synthetic textile
Cover: Synthetic rubber and glass fiber
Temp: -20°C to +165°C, (-4°F to +329°F)
Pressure: 7 bar / 100 psi

EHW006 Heavy Duty Cooling Water Transfer

Application: Discharge of cooling water
Tube: EPDM
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber and glass fiber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 10,5 bar / 150 psi
**Welding**

**EHW500 Industrial Welding**

- **Application:** Industrial welding with oxygen or acetylene
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)
- **Pressure:** 20.7 bar / 300 psi

**EHW502 Heavy Duty Industrial Welding**

- **Application:** Industrial welding with acetylene: ASTM C 542
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +100°C, (-22°F to +212°F)
- **Pressure:** 25 bar / 365 psi

**EHW503 Welding Liquid Propane Gas**

- **Application:** Industrial welding with LPG
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)
- **Pressure:** 20.7 bar / 300 psi

**EHW504 Welding Torch Cooling**

- **Application:** Delivery of water and cooling liquids suitable for welding torch
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +120°C, (-40°F to +248°F)
- **Pressure:** 7 bar / 100 psi

**EHW501 Industrial Welding Twinline (Blue and Red)**

- **Application:** Industrial welding with oxygen or acetylene
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)
- **Pressure:** 20.7 bar / 300 psi

**EHW507 Industrial Welding Twinline (Green and Red)**

- **Application:** Industrial welding with oxygen or acetylene
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)
- **Pressure:** 20.7 bar / 300 psi

**EHW505 Welding Rubberized Electrical Protection**

- **Application:** Cable protection in industrial applications
- **Tube:** Rubberized textile fabric
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)

**EHW506 Welding Electrical Protection**

- **Application:** Cable protection in industrial applications
- **Tube:** Synthetic fulleno
- **Cover:** Synthetic rubber
- **Temp:** -30°C to +80°C, (-22°F to +176°F)

**Road Construction**

**EHK009 Asphalt Suction & Discharge**

- **Application:** Suction & discharge of tar and asphalt
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile dual helical wire with anti-static copper wire
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +180°C, (-40°F to +356°F)
- **Pressure:** 18 bar / 260 psi

**Specialized**

**EHS500 Sweeper Hose**

- **Application:** Street cleaning machines
- **Tube:** Natural rubber
- **Reinforcement:** Synthetic textile
- **Cover:** Natural rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)

**EHS501 Sewer Sweeper Vacuum**

- **Application:** Suction and cleaning of sewage systems
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** CR blend with cuffed ends
- **Temp:** -35°C to +100°C, (-31°F to +212°F)
- **Pressure:** 6 bar / 85 psi
Specialty
Introduction and Safety Information

Remove the guesswork from selecting, buying and using critical application hose
• When you’re handling easily contaminated or hazardous material, it is critical to select the proper hose. The high visibility branding and color coding of Eaton removes the guesswork for hose selection.

Environmental resistance
• The tube and cover materials of Eaton industrial hose products are designed to assure maximum hose life at a superior value to the customer. Specialty service Eaton hoses are sophisticated transfer products for demanding jobs. Exceptional aging, weathering and heat resistant properties keep the hose flexible and easy to use.

Permanent branding for easy identification
• The name of the hose and the working pressure are molded into the hose cover can’t rub off. This makes hose selection on the job quicker, easier and safer.

The Eaton reputation for quality
• Your assurance of dependable performance.

Specialty hose - Safety information

Important!

⚠️ WARNING: Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ WARNING: Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ WARNING: Do not use chemical hose at temperatures or pressures above those recommended by the manufacturer. All operators must be thoroughly trained in the care and use of this hose and must at all times wear protective clothing. A hose or system failure could cause the release of a poisonous, corrosive or flammable material.

⚠️ WARNING: Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.

⚠️ WARNING: Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ WARNING: Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton industrial hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ WARNING: Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

⚠️ WARNING: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.
EHW018 Temporary Fire Fighting Discharge
EN 1947:2002-1/CAT.II TYPE C-CLASS 1

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**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Application:**
- For fire fighting vehicles

**Markets:**
- Fire fighting

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

**Operating temperature:**
-20°C to +70°C
(-4°F to +158°F)

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Specialty**  
**Fire Fighting**

---

**EHW017**  
**Fire Fighting Discharge**  
EN 1947:2002-1/ CAT.I TYPE A-CLASS 1

---

**Construction:**  
- **Tube:** Synthetic rubber  
- **Reinforcement:** High-tensile synthetic textile  
- **Cover:** Synthetic rubber

**Operating temperature:**  
-20°C to +70°C  
(-4°F to +158°F)

---

**Application:**  
- For fire fighting vehicles

**Markets:**  
- Fire fighting

**Type of couplings:**  
Contact coupling manufacturer for coupling selection and installation

---

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Refer to warnings and safety information in Section N.  
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Specialty
Fire Fighting

EHW019 & EHW020  THERMORUB™ Fire Fighting

Construction:
- **Tube:** Thermorub compound
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Thermorub compound

Operating temperature:
- -5°C to +60°C
  (+23°F to +140°F)

Application:
- For fire fighting applications in fire reels

Markets:
- Fire fighting

Type of couplings:
- Contact coupling manufacturer for coupling selection and installation

### THERMORUB™ Fire Fighting

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*Product is also available in BK-Black

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Specialty
Fire Fighting

EHW016
Fire Extinguisher

Construction:
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber

Operating temperature:
-40°C to +120°C
(-40°F to +248°F)

Application:
- For fire extinguishers

Markets:
- Fire fighting

Type of couplings:
Contact coupling manufacturer for coupling selection and installation

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
### EHN002

**Steel Mill FG Cooling Water Transfer**

(Outside Temperature up to 600°C)

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Impregnated synthetic rubber

**Operating temperature:**
-25°C to +75°C (-13°F to +158°F)

**Application:**
- For cooling water transfer

**Markets:**
- Steel mill
- Foundries

**Type of couplings:**
- Contact coupling manufacturer for coupling selection and installation

**Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.**

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**Specialty – Steel Mill**

**EHN003**

Steel Mill Non-Flammable HD Cooling Water Transfer

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber and glass fiber

**Operating temperature:**
-40°C to +120°C  
(-40°F to +248°F)

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

**Application:**
- For discharge of cooling water

**Markets:**
- Steel mill
- Foundries

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

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<th>Part No.</th>
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<th>Hose O.D.</th>
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Resistance ≤ 1 x 10⁹ Q/m
## EHN004

### Steel Mill Heavy Duty White Cooling Water Transfer

*(Outside Temperature up to 600°C)*

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber and glass fiber

**Operating temperature:**
- -40°C to +125°C
  (-40°F to +257°F)

**Application:**
- For discharge of cooling water

**Markets:**
- Steel mill
- Foundries

**Type of couplings:**
- Contact coupling manufacturer for coupling selection and installation

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Resistance ≤ 1 x 10⁸ Ω/m

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Specialty
Steel Mill

EHN005
Steel Mill Medium Duty Cooling Water Transfer

Construction:
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: Synthetic rubber and 2 glass fiber

Operating temperature:
-40°C to +125°C
(-40°F to +257°F)

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

Application:
• For cooling water systems in steel mills and foundries

Markets:
• Steel mill
• Foundries

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<th>#</th>
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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
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Type of couplings:
Contact coupling manufacturer for coupling selection and installation
**Specialty Steel Mill**

**EHN006 Steel Mill Heavy Duty Ceramic Coated**

**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Ceramic coated EPDM rubber

**Operating temperature:**
-40°C to +125°C
(-40°F to +257°F)

**Application:**
- For transfer of water and hot water where hose needs to be resistant to heat

**Markets:**
- Steel mill
- Foundries

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
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<td>mm in</td>
<td>mm in</td>
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<td>bar psi</td>
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**Specialty – Steel Mill**

**EHN007**

**Steel Mill Fiberglass Steam Transfer**
(Outside Temperature up to 600°C)

**Construction:**
- Tube: EPM
- Reinforcement: High-tensile synthetic textile
- Cover: Synthetic rubber and glass fiber

**Operating temperature:**
-20°C to +165°C
(-4°F to +329°F)

**Application:**
- For discharge of cooling water

**Markets:**
- Steel mill
- Foundries

**Type of couplings:**
- Contact coupling manufacturer for coupling selection and installation

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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**EHW006**

**Heavy Duty Cooling Water Transfer**  
(Outside Temperature up to 600°C)

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber and glass fiber

**Application:**
- For discharge of cooling water

**Markets:**
- Steel mill
- Foundries

**Operating temperature:**
-40°C to +125°C  
(-40°F to +257°F)

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Specialty
Welding

EHW500

Industrial Welding

**Construction:**
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Flame, abrasion, and weather resistant synthetic rubber

**Operating temperature:**
-30°C to +80°C (-22°F to +176°F)

**Application:**
- For industrial welding with oxygen or acetylene

**Markets:**
- In-plant service
- Welding

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

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*Product also available in GN-Green and BU-Blue

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
### Heavy Duty Industrial Welding

**ASTM C 542**

#### Construction:
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame, abrasion, and weather resistant synthetic rubber

#### Operating temperature:
-30°C to +100°C
(-22°F to +212°F)

#### Application:
- For industrial welding with acetylene

#### Markets:
- In-plant service
- Welding

#### Type of couplings:
Contact coupling manufacturer for coupling selection and installation

### Part No.*  Hose I.D.  Hose O.D.  Max Operating Pressure  Burst Pressure  Minimum Bend Radius  Weight  Length

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* Product also available in BK-Black, BU-Blue, and OR-Orange
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame, abrasion, ozone, and weather resistant synthetic rubber

**Operating temperature:**
-30°C to +80°C (-22°F to +176°F)

**Application:**
- For industrial welding with LPG

**Markets:**
- In-plant service
- Welding

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

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Specialty
Welding

EHW504
Welding Torch Cooling

Construction:
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Heat, abrasion, ozone, and weather resistant synthetic rubber

Operating temperature:
-40°C to +120°C
(-40°F to +248°F)

Application:
• For delivery of water and cooling liquids suitable for welding torch

Markets:
• In-plant service
• Welding

Type of couplings:
Contact coupling manufacturer for coupling selection and installation

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Specialty**

**Welding**

---

**EHW501 Industrial Welding Twinline (Blue & Red)**

ISO 3821

---

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame, abrasion, and weather resistant synthetic rubber

**Operating temperature:**
-30°C to +80°C
(-22°F to +176°F)

**Application:**
- For industrial welding with oxygen or acetylene

**Markets:**
- In-plant service
- Welding

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

---

**Part No.**
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<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Specialty – Welding

**EHW507**

**Industrial Welding Twinline (Green & Red)**

ISO 3821

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame, abrasion, and weather resistant synthetic rubber

**Operating temperature:**
-30°C to +80°C (-22°F to +176°F)

**Application:**
- For industrial welding with oxygen or acetylene

**Markets:**
- In-plant service
- Welding

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Specialty**

**Welding**

_EHW505_  
*Welding Rubberized Electrical Protection*

**Construction:**
- **Tube:** Rubberized textile fabric  
- **Cover:** Synthetic rubber

**Operating temperature:**
-30°C to +80°C  
(-22°F to +176°F)

**Application:**
- For cable protection in industrial applications

**Markets:**
- In-plant service  
- Welding

**Type of couplings:**
Contact coupling manufacturer for coupling selection and installation

---

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Specialty
Welding

EHW506
Welding Electrical Protection

Construction:
Tube: Synthetic fulleno
Cover: Synthetic rubber

Operating temperature:
-30°C to +80°C
(-22°F to +176°F)

Application:
• For cable protection in industrial applications

Markets:
• In-plant service
• Welding

Type of couplings:
Contact coupling manufacturer for coupling selection and installation

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Specialty
Road Construction

EHK009
Asphalt Suction & Discharge

Construction:
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile dual helical wire with anti-static copper wire
Cover: Synthetic rubber

Operating temperature:
-40°C to +180°C
(-40°F to +356°F)

Application:
- For suction and discharge of tar and asphalt

Markets:
- Road construction
- Roof construction

Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**EHS500**

**Sweeper Hose**

**Construction:**
- **Tube:** Natural rubber
- **Reinforcement:** Synthetic textile
- **Cover:** Natural rubber

**Operating temperature:**
- -25°C to +70°C
  (-13°F to +158°F)

**Application:**
- For street cleaning machines

**Markets:**
- Road cleaning

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Specialty
Sewer Cleaning

**EHS501 Sewer Sweeper Vacuum**

**Construction:**
- Tube: NBR blend
- Reinforcement: High-tensile synthetic textile and steel helical wire
- Cover: CR blend with cuffed ends

**Operating temperature:**
-35°C to +100°C (-31°F to +212°F)

**Application:**
- For suction and cleaning of sewage systems

**Markets:**
- Street cleaning

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Steam

Steam hose
EHS005 Steel Wire Reinforced Steam .................. J-6
EHS007 Steel Wire Reinforced Steam .................. J-7
EHS006 Steel Wire Reinforced Steam .................. J-8
EHS010 Steel Steam ........................................... J-9
EHS001 Industrial Steam ................................. J-10
EHS004 Textile Steam ....................................... J-11
EHS003 Textile Steam ....................................... J-12
EHS002 Textile Steam ....................................... J-13
Steam hose

**EHS005 Steel Wire Reinforced Steam, BS 5342 Type 2 Class A**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** Butyl  
**Reinforcement:** High-tensile steel wire cords  
**Cover:** Pin-pricked synthetic rubber  
**Temp:** -40°C to +208°C, (-40°F to +400°F)  
**Pressure:** 17 bar / 247 psi

**EHS007 Steel Wire Reinforced Steam, ISO 6134-2B**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPM  
**Reinforcement:** High-tensile steel wire cords  
**Cover:** Pin-pricked, oil-resistant synthetic rubber  
**Temp:** -40°C to +208°C, (-40°F to +400°F)  
**Pressure:** 18 bar / 261 psi

**EHS006 Steel Wire Reinforced Steam, ISO 6134-2A**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPM  
**Reinforcement:** High-tensile steel wire cords  
**Cover:** Pin-pricked synthetic rubber  
**Temp:** -40°C to +208°C, (-40°F to +400°F)  
**Pressure:** 18 bar / 261 psi

**EHS010 Steel Steam**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPDM  
**Reinforcement:** High-tensile steel wire cords and steel wire helix  
**Cover:** Red EPDM; abrasion: heat, steam, weather and ozone resistant  
**Temp:** Maximum: +200°C (+392°F)  
**Pressure:** 7-10 bar / 102-145 psi

**EHS001 Industrial Steam, BS 5342 Type 2 Class A**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPDM  
**Reinforcement:** High-tensile steel wire  
**Cover:** Pin-pricked EPDM  
**Temp:** -40°C to +208°C, (-40°F to +400°F)  
**Pressure:** 17,2 bar / 250 psi

**EHS004 Textile Steam Oil Resistant, ISO 6134-1B**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPM  
**Reinforcement:** High-tensile synthetic textile and anti-static wire  
**Cover:** Pin-pricked, oil-resistant synthetic rubber  
**Temp:** -40°C to +165°C, (-40°F to +329°F)  
**Pressure:** 6 bar / 87 psi

**EHS003 Textile Steam, ISO 6134-1A**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPM  
**Reinforcement:** High-tensile synthetic textile and anti-static wire  
**Cover:** Pin-pricked synthetic rubber  
**Temp:** -40°C to +165°C, (-40°F to +329°F)  
**Pressure:** 6 bar / 87 psi

**EHS002 Textile Steam**

**Application:** Transfer of steam for processing products & cleaning equipment  
**Tube:** EPM  
**Reinforcement:** High-tensile synthetic textile  
**Cover:** Pin-pricked synthetic rubber  
**Temp:** -40°C to +165°C, (-40°F to +329°F)  
**Pressure:** 7 bar / 100 psi
Steam hose - Safety information

**Important!**

⚠️ **WARNING:** Exposure to steam is hazardous. If not properly controlled, steam can cause property damage, serious bodily injury, or death. In order to avoid property damage, serious injury, or death, you must select the proper steam hose for the given application. Also, proper installation, usage and maintenance of the steam hose you select will contribute to increased operator safety.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, and damage to property.

⚠️ **WARNING:** Only specially trained persons should engage in applications or testing procedures that require particular skills. Failure to do so may result in damage to the hose products or to other property and more importantly, may result in serious injury.

⚠️ **WARNING:** Steam heat is hotter than 212°F (boiling water) and increases in temperature as pressure increases. See safety information in this catalog.

---

**Heat resisting Patrex or EPDM tubes**
- Eaton products’ exclusive elastomers with superior heat resistance provide for longer service life...and will resist flaking rubber particles (popcorning) and will handle most steam cleaner detergents.

**Hi-strength steel wire braided reinforcement**
- Keeps the hose limber and easy to handle. Adds versatility...hot water cleaning to high-pressure process steam service.

**EPDM or oil resistant**
- Stand up to the dragging, scuffing and abuse found in many applications.

**Covers**
- Ensures maximum service life and value. Exceptional aging, weathering, and heat resisting properties keep the hose flexible and easy to use.

**Permanent branding for easy identification**
- The name of the hose and the working pressure are molded into the hose cover...can’t rub off. This lets the operator know that the hose is for steam service.

**The Eaton brand reputation for quality**
- Your assurance of dependable performance.
Steam
Safety tips

Common sense with steam hose
- Provide operators with adequate safety clothing. Include gloves, rubber boots, full length protective clothing and eye protection. The objective is to provide protection from scalding burns resulting from splash back of steam or hot water.
- Ensure that the work area is free of tripping hazards and other clutter.
- Check the tightness of the coupling with each use.
- Do not allow the hose to remain pressurized when not in service. Turning off the pressure can provide dramatic increases in steam hose service life.
- Periodic maintenance of steam hose can pay big dividends. All steam hoses are expected to wear out in time. It is important to continually be on the lookout for hose that has deteriorated to the point where it can no longer provide safe service. The following guidelines can help in that determination.

Operators should be aware of the obvious signs of trouble:
- Cover blisters or lumps
- Cuts or gouges in the outside of the hose which expose the reinforcement
- Hardened or inflexible hose
- Steam leakages at the coupling ends or anywhere along the length of the hose
- Flattened or kinked areas which have damaged the hose
- A reduction of steam flow indicating that the tube is swelling

When any of the above abnormalities appear it is good safety sense to immediately remove the hose from service. Once removed, the hose can be carefully inspected before further use. Steam hose failures occur near the ends due to flexing and strain at the couplings. In those cases the hose can frequently be cut back and recoupled, providing additional service life. Hose used in continuous high pressure/temperature service should be inspected periodically for signs of tube hardening. In most cases it is necessary to remove a coupling for tube inspection.

Make your selection with safety in mind
- Be sure to select a hose identified as steam hose.
- Hose identification should be in the form of permanent branding on the hose outer cover, not just on the package.
- You must identify the type of service the steam hose is required to accomplish.
  a) Is the hose manually handled?
  b) What is the anticipated frequency of use?
  c) What is the actual pressure of the steam service?
  d) Is it subject to surges or peak pressures?
  e) What is the temperature of the steam?
  f) Saturated (wet) or superheated (dry) steam?
  g) What are the external conditions in the area where the hose will be used?
- You should recognize that spillage or accumulations of corrosive chemicals or petroleum based materials externally can have a deteriorating effect on the hose cover.

Making sure the hose is installed properly
- Be certain to use hose couplings designed for steam hose service. Follow the coupling manufacturer’s instruction for coupling attachment. Check tightness with each use.
- Avoid extreme flexing of the hose near the coupling. If necessary use elbows in the piping system to assure a straight line connection with the hose.
- Installing and using a shut-off valve between the steam source and the hose will maximize service life and operator safety, and we consider such a value mandatory for safe operation.
- The use of spring guards can relieve some of the acute flexing encountered in heavy manual handling applications.
- Provide a suitable means of storing the hose when not in use. A permanent rack or tray will minimize the damage to the hose in storage. Do not hang the hose on a hook, nail, or other device which could cut or damage the hose.
**Recommendations**

1. Install an OSHA approved safety cable on the hose at every junction to prevent whipping of the end if the coupling should disconnect.
2. Ensure continuous static grounding of the hose at each coupling.
3. If the clamps are a bolt-on style, tighten them to the correct torque before use. Use calibrated torque wrenches, not impact or other types.
4. Repairs on steam hoses and couplings should be done only by fully qualified distributors or fabricators.
5. All workers near the hose should wear full protective safety gear including gloves, safety shoes, full-length protective clothing and protective glasses or goggles.
6. Perform a complete safety check before the steam is turned on. Inspect the area and remove all unnecessary objects and debris. Inspect the hose for gouges, kinks, worn areas, loose couplings and other potential safety problems.
7. Install a shut-off valve between the source of steam and hose assembly.
8. Use spring guards to protect the hose from kinking when handling of the hose is required.
9. Avoid excessive flexing of the hose, particularly near couplings. Flexing can weaken the assembly.
10. Examine connections to the steam source. Use straight connections instead of bending the hose. Install pipe elbows to ensure either straight vertical connections pointing downward, or a 45° downward angle that allows the hose to gently contact the ground without too much flexing.
11. Be aware of the danger of hammer effect and take steps to prevent it. Hammer effect is caused by spikes of extreme pressure; it can damage hose assemblies and break couplings free. The usual causes are blockage, pinched-off flow or valves being opened or closed too fast. Make personnel aware of both the danger and causes, and urge them to avoid actions that can cause the hammer effect.
12. When finished using steam, always close the pressure valve from the steam source. In addition to providing an extra safety margin, this action can extend the working life of the hose.
13. Add an extra measure of safety by ensuring that all steam hose connections are incompatible with other hoses in the plant or by color-coding for different applications. Manufacturers can often cooperate with these requests and suggest good color-coding systems.
14. Train workers to look for signs of problems during usage, such as steam leakage, loose clamps, hose shrinkage, cover damage or exposed reinforcement.
## Steel Wire Reinforced Steam

**BS 5342 Type 2 Class A**

**Construction:**
- **Tube:** Butyl
- **Reinforcement:** High-tensile steel wire cords
- **Cover:** Pin-pricked synthetic rubber

**Operating temperature:**
-40°C to +208°C
(-40°F to +406°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

**Type of couplings:**
- Ground joint female
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Product available in Black - BK - and Red - RD*
Steam hose

EHS007
Steel Wire Reinforced Steam
ISO 6134-2B Oil Resistant Cover

Construction:
Tube: EPM
Reinforcement: High-tensile steel wire cords
Cover: Pin-pricked, oil-resistant synthetic rubber

Operating temperature:
-40°C to +208°C
(-40°F to +406°F)

Application:
Transfer of steam for processing products and cleaning equipment

Markets:
• Refining and petrochemical
• Paper industry
• Industrial cleaning markets
• Oil and gas exploration
• Steel
• Ship building

Type of couplings:
• Ground joint
• Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Steam Hose

**EHS006 Steel Wire Reinforced Steam**

ISO 6134-2A

**Construction:**
- Tube: EPM
- Reinforcement: High-tensile steel wire cords
- Cover: Pin-pricked synthetic rubber

**Operating temperature:**
-40°C to +208°C
(-40°F to +406°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

**Type of couplings:**
- Ground joint female
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.** | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Minimum Bend Radius | Weight | Length |
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*Product available in Black - BK - and Red - RD

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Steam Hose

EHS010

Steel Wire Reinforced Steam

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile steel wire cords and steel wire helix
- **Cover:** Red EPDM; abrasion, heat, steam, weather and ozone resistant

**Operating temperature:**
-40°C to +200°C
(-40°F to +392°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Steel
- Ship building

**Type of couplings:**
- Ground join
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Steam Hose**

**EHS001**

**Industrial Steam**

BS 5342 Type 2 Class A

**Construction:**
- Tube: EPM blend
- Reinforcement: High-tensile steel wire
- Cover: Pin-pricked EPM

**Operating temperature:**
-40°C to +208°C
(-40°F to +407°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

**Type of couplings:**
- Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Product available in Black - BK - and Red - RD*
Steam
Steam Hose

**EHS004**

**Textile Steam**
ISO 6134-1B—Oil Resistant Cover

**Construction:**
- Tube: EPM
- Reinforcement: High-tensile synthetic textile and anti-static wire
- Cover: Pin-pricked, oil-resistant synthetic rubber

**Operating temperature:**
-40°C to +165°C
(-40°F to +329°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

**Type of couplings:**
- Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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</table>
Steam Hose

EHS003 Textile Steam
ISO 6134-1A

**Construction:**
- Tube: EPM
- Reinforcement: High-tensile synthetic textile and anti-static wire
- Cover: Pin-pricked synthetic rubber

**Operating temperature:**
-40°C to +165°C
(-40°F to +329°F)

**Application:**
- Transfer of steam for processing products and cleaning equipment

**Markets:**
- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

**Type of couplings:**
- Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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<td>60</td>
<td>870</td>
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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
# EHS002

## Textile Steam

### Construction:  
- **Tube:** EPM  
- **Reinforcement:** High-tensile synthetic textile  
- **Cover:** Pin-pricked synthetic rubber

### Operating temperature:  
-40°C to +165°C  
(-40°F to +329°F)

### Application:  
- Transfer of steam for processing products and cleaning equipment

### Markets:  
- Refining and petrochemical  
- Paper industry  
- Industrial cleaning markets  
- Oil and gas exploration  
- Steel  
- Ship building

### Type of couplings:  
- Boss male  
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Table: Textile Steam Specifications

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Burst Pressure</th>
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Notes
Water

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### Water

#### Suction & Discharge

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<th>Tube</th>
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<th>Cover</th>
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<td>Water Suction &amp; Discharge</td>
<td>S &amp; D of water, mud and slurries; ag fertilizers, salt water (brine)</td>
<td>EPDM</td>
<td>High-tensile synthetic textile / dual helical wires</td>
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<td>EHW150</td>
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<td>Synthetic rubbers</td>
<td>Textile and a single steel helical wire</td>
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<td>Suction and discharge of water</td>
<td>Synthetic rubber</td>
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<td>High-tensile synthetic textile / steel helical wire</td>
<td>EPDM</td>
<td>-40°C to +120°C, (-40°F to +248°F)</td>
<td>10.5 bar / 150 psi</td>
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<td>Water Suction &amp; Discharge</td>
<td>S &amp; D of water in industrial and construction services</td>
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<td>High-tensile synthetic textile and steel helix wire</td>
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<td>Water Suction &amp; Discharge</td>
<td>For S &amp; D of water in mining and industrial applications</td>
<td>NBR/PVC Conductive fuel hose tube</td>
<td>High tensile synthetic textile and steel helix wire</td>
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<td>Pumping, suction and discharge, and convey of water</td>
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<td>PVC</td>
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## Water

**Discharge (continued)**

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<th>Product Name</th>
<th>Application</th>
<th>Tube Material</th>
<th>Reinforcement Details</th>
<th>Cover Material</th>
<th>Temp Range</th>
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<td>Water discharge</td>
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<td>Discharge of water in agriculture and industry</td>
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### Hot Water

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<th>Product Name</th>
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<th>Reinforcement Details</th>
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<th>Temp Range</th>
<th>Pressure</th>
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<td>Flat Corrugated Hot Water Suction &amp; Discharge</td>
<td>Suction and discharge of hot water in industrial applications</td>
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Water

Washdown

EC116 Washdown

Application: Medium pressure cleaning, food, car wash and labor areas
Tube: Synthetic rubber
Reinforcement: One wire braid
Cover: Blue or gray smooth synthetic rubber
Temp: -40°C to +150°C, (-40°F to +302°F)
Pressure: 300 bar / 4380 psi

EC216 Washdown

Application: High pressure cleaning, food, car wash and labor areas
Tube: Synthetic rubber
Reinforcement: Two wire braid
Cover: Blue or gray smooth synthetic rubber
Temp: -40°C to +150°C, (-40°F to +302°F)
Pressure: 500 bar / 7250 psi

EC910 Waterblast

Application: Waterblast service, water-soap emulsion
Tube: Nitrile
Reinforcement: Heavy 4 spiral wire
Cover: Nitrile
Temp: -40°C to +93°C, (-40°F to +200°F)
Pressure: 690 bar / 10000 psi

Specialty

EHW008 Tank Cleaning

Application: Tank cleaning applications
Tube: EPDM
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: EPDM
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 28 bar / 400 psi

EHW015 Artificial Snow

Application: Artificial snow equipment
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile
Cover: Synthetic rubber
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 41 bar / 600 psi

EHW022 Heavy Duty Radiator Car Heater

Application: Delivery of hot water in industrial applications
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 10,5 bar / 150 psi

EHW021 Radiator Car Heater

Application: Hot water discharge in industrial applications
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 4 bar / 60 psi

EHW002 Radiator Hose

Application: Hot water with anti-freeze cooling systems, motion & stationary
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM rubber
Temp: -40°C to +125°C, (-40°F to +257°F)
Pressure: 4 bar / 60 psi

Sewer Cleaning

EHS520 Sewer Jetting

Application: High pressure water cleaning and rinsing of sewage systems
Tube: Synthetic rubber
Reinforcement: High tensile synthetic textile
Cover: Synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 200 bar / 2,900 psi

EHS540 Sewer Jetting

Application: High pressure water cleaning and rinsing of sewage systems
Tube: Synthetic rubber
Reinforcement: High tensile synthetic textile
Cover: Synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 250 bar / 3,625 psi
Water hose
Introduction and Safety information

**Job related construction service**
- Eaton makes a wide variety of hose styles for water suction and discharge applications. Each product is manufactured utilizing the components and construction which makes it best suited for the job to be performed.

**Pressure and vacuum rated**
- Eaton manufactures braided and spiral hoses using the latest technology in wire and synthetic yarns. As a result, Eaton hoses are pressure and vacuum resistant, as well as flexible and easy to handle.

**Quality assured**
- Value through design and quality control assures you of maximum performance from Eaton products.

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**Water suction and discharge hose - Safety information**

**Important!**

⚠️ **WARNING:** Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in serious injury, death, or damage to property.

⚠️ **WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance, and storage of a particular hose may result in its failure to perform in the manner intended and may result in serious injury, death, or damage to property.

⚠️ **WARNING:** Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material. This information is listed in this catalog.

⚠️ **WARNING:** Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

⚠️ **WARNING:** Do not use hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

⚠️ **WARNING:** Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.
OTTER™ PLUS Water Suction & Discharge

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile with dual helical wires
- **Cover:** EPDM

**Operating temperature:**
-40°C to +120°C (-40°F to +248°F)

**Application:**
- Pumping, suction, and discharge of water, mud and slurries
- Diluted agricultural fertilizers
- Convey water
- Transfer and haul salt water (brine)

**Markets:**
- Agriculture
- Construction
- Equipment rental
- Mining
- Ship building
- Oil and gas exploration
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Part No. Specifications

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
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Water
Suction & Discharge

**EHW150**

*Water Suction & Discharge*

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** Textile and a single steel helical wire
- **Cover:** Oil resistant NBR blend (RMA Class A)

**Operating temperature:**
-25°C to +70°C (-13°F to +158°F)

**Application:**
- Pumping, suction and discharge of water, mud and slurries
- Convey water in applications where oil resistance is needed on outer cover
- Transfer and haul salt water (brine)

**Markets:**
- Construction
- Equipment rental
- Mining
- Ship building
- Oil and gas exploration
- Tank truck

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water
Suction & Discharge

**EHW009**
Heavy Duty Water Suction & Discharge

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile and dual steel helical wire
- Cover: Abrasion and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Application:**
- For suction and discharge of water

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Cam and groove
- Combination nipple

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to Eaton catalog or Technical Support for proper application.
Water

Suction & Discharge

H0364

OTTER™ Water Suction & Discharge

Construction:
- Tube: EPDM
- Reinforcement: High-tensile synthetic textile and steel helical wire
- Cover: EPDM

Operating temperature:
-40°C to +120°C (-40°F to +248°F)

Application:
- Pumping, suction, and discharge of water, mud, and slurries
- Diluted agricultural fertilizers
- Convey water
- Transfer and haul salt water (brine)

Markets:
- Agriculture
- Construction
- Equipment rental
- Mining
- Ship building
- Oil and gas exploration
- Tank truck

Type of couplings:
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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*Additional lengths available on select sizes

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water
Suction & Discharge

EHW035
Heavy Duty Suction & Discharge

**Construction:**
- **Tube:** Synthetic Rubber
- **Reinforcement:** High-tensile synthetic textile and steel helix wire reinforcement
- **Cover:** Synthetic Rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Application:**
- For suction and discharge of water in industrial and construction services

**Markets:**
- Construction
- Industrial
- Oil and gas exploration

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<thead>
<tr>
<th>#</th>
<th>Part No.</th>
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<th>Burst Pressure</th>
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EHW032

Heavy Duty Water Suction & Discharge
AS 2660 CLASS B

Construction:
Tube: NBR/PVC Conductive fuel hose tube
Reinforcement: High tensile synthetic textile and steel helix wire
Cover: Special CR cover

Application:
- For suction and discharge of water in mining and industrial applications

Markets:
- Mining
- Industrial
- Oil and gas exploration

Type of couplings:
- Cam and groove
- Combination nipple

Operating temperature:
-25°C to +70°C
(-13°F to +158°F)

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
EHW014

**Channeled Water Suction & Discharge**

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile and helical steel wire
- Cover: Channeled, abrasion, and weather resistant synthetic rubber

**Operating temperature:**
- -25°C to +70°C
  (-13°F to +158°F)

**Applications:**
- Pumping, suction, and discharge of water
- Convey water

**Markets:**
- Construction
- Equipment rental
- Mining
- Ship building
- Oil and gas exploration
- Tank truck

**Type of Couplings**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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### EHW013 Corrugated Water Suction & Discharge

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Corrugated synthetic rubber with cuffed ends

**Applications:**
- For water suction and discharge in agricultural, industrial and construction markets.

**Markets:**
- Construction
- Agriculture
- Industrial

**Operating temperature:**
-25°C to +70°C (-13°F to +158°F)

**Applications:**
- For water suction and discharge in agricultural, industrial and construction markets.

**Markets:**
- Construction
- Agriculture
- Industrial

**Type of Couplings**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

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Water Suction & Discharge

**EHW005**

**Flat Corrugated Water Suction & Discharge**

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Flat corrugated, abrasion, and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Application:**
- For suction and discharge of water

**Markets:**
- Construction
- Industrial
- Agricultural

**Type of couplings:**
- Cam and groove
- Combination nipple

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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<td>bar/psi</td>
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### EHT005

**Medium Duty Suction & Discharge**

**Construction:**
- Tube: PVC spiral
- Cover: PVC

**Operating temperature:**
- -5°C to +60°C
  (+23°F to +140°F)

**Application:**
- For medium-duty suction and delivery of water, salt water, light chemicals

**Markets:**
- Agriculture
- Industry
- Construction

**Type of couplings:**
- Cam & Groove
- Combination nipples

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.**

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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</table>

* GN = Green, this product also available in CL-Clear, GY-Gray, OG-Olive Green
EHW004 High Pressure Layflat Water Discharge

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather resistant synthetic rubber

**Application:**
- For discharge of water in agricultural and industrial applications

**Markets:**
- Construction
- Industrial
- Agricultural

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Type of couplings:**
- Shank type male x female
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Water Discharge – High Pressure Layflat Water Discharge

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>62 bar</td>
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<td>62 bar</td>
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<td>100 ft</td>
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<td>20.7 bar</td>
<td>62 bar</td>
<td>3.56 kg/m</td>
<td>100 ft</td>
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</tbody>
</table>

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water – Discharge

**EHWO29**

**OTTER™ Layflat Water Discharge**

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM

**Operating temperature:**
- -40°C to +120°C
  (-40°F to +248°F)

**Application:**
- For water discharge

**Markets:**
- Agriculture
- Construction
- Equipment rental
- Mining
- Ship building
- Oil and gas exploration
- Tank truck

**Type of couplings:**
- Shank type male x female
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

---

<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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Water
Discharge

EHW007 Soft Wall Water Discharge

Construction:
Tube: NBR blend
Reinforcement: High-tensile synthetic textile
Cover: CR blend

Operating temperature:
-35°C to +80°C
(-31°F to +176°F)

Application:
• For water discharge

Markets:
• Construction
• Industrial

Type of couplings:
• Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

<table>
<thead>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
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</table>
**EHW003**

**Medium Duty Water Discharge**

TS EN ISO 1403 Type 2

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather and ozone resistant synthetic rubber

**Operating temperature:**
- -25°C to +70°C
  (-13°F to +158°F)

**Application:**
- For water discharge

**Markets:**
- Construction
- Industrial
- Agricultural

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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<table>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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Weight: kg/m (lbs/ft) Length: ft
**Water Discharge**

**EHW001 Layflat Water Discharge**

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather resistant synthetic rubber

**Operating temperature:**
- -25°C to +70°C
  (-13°F to +158°F)

**Application:**
- For discharge of water in agricultural and industrial applications

**Markets:**
- Construction
- Industrial
- Agricultural

**Type of couplings:**
- Shank type male x female
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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## Water Discharge

### EHW011 Low Pressure Water Discharge

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather and ozone resistant synthetic rubber

**Operating temperature:**
- -25°C to +70°C
- (-13°F to +158°F)

**Application:**
- For general water discharge

**Markets:**
- Mining
- Construction
- In-plant service
- Gardening
- Assembly/manufacturers

**Type of couplings:**
- Cam and groove
- Quick disconnect
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Technical Specifications

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*Product also available in Red, use “RD” when ordering.*

---

**Refer to warnings and safety information in Section N.**

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather resistant synthetic rubber

**Application:**
- For water discharge

**Markets:**
- Construction
- Industrial
- Agriculture

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Type of couplings:**
- Shank type male x female
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**EHW012**

**Low Pressure Layflat Water Discharge**

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Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water Discharge

**EHW010**

**Water Discharge**

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Abrasion and weather resistant synthetic rubber

**Operating temperature:**
-25°C to +70°C
(-13°F to +158°F)

**Application:**
- For general water discharge

**Markets:**
- Mining
- Construction
- In-plant service
- Gardening
- Assembly/manufacturers

**Type of couplings:**
- Barbed inserts
- Quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Weight** | **Length**
--- | --- | --- | --- | --- | --- | ---
EHW010-04- | 6,4 mm | 11,0 mm | 10,5 bar | 31 bar | 0,11 kg/m | 300 ft
EHW010-05- | 7,9 mm | 14,0 mm | 10,5 bar | 31 bar | 0,16 kg/m | 300 ft
EHW010-06- | 9,5 mm | 16,0 mm | 10,5 bar | 31 bar | 0,19 kg/m | 300 ft
EHW010-08- | 12,7 mm | 19,0 mm | 10,5 bar | 31 bar | 0,23 kg/m | 300 ft
EHW010-10- | 15,9 mm | 23,0 mm | 10,5 bar | 31 bar | 0,33 kg/m | 300 ft
EHW010-12- | 19,1 mm | 27,0 mm | 10,5 bar | 31 bar | 0,44 kg/m | 300 ft
EHW010-16- | 25,4 mm | 34,0 mm | 10,5 bar | 31 bar | 0,63 kg/m | 300 ft

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
## EHT303 Medium Duty Discharge

**Construction:**
- **Tube:** PVC/NBR lining
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** PVC

**Operating temperature:**
-5°C to +60°C
(+23°F to +140°F)

**Application:**
- Medium duty discharge of water in agriculture and industry

**Markets:**
- Agriculture
- Industry

**Type of couplings:**
- Cam and groove
- Combination nipples

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Part No. Hose I.D. Max Operating Pressure Burst Pressure Weight Length

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**EHT301**

**Light Duty Discharge**

**Construction:**
- Tube: PVC lining
- Reinforcement: High-tensile synthetic textile
- Cover: PVC

**Operating temperature:**
-5°C to +60°C
(+23°F to +140°F)

**Application:**
- Light duty discharge of water in agriculture and industry

**Markets:**
- Agriculture
- Industry

**Type of couplings:**
- Cam and groove
- Combination nipples

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
EHW027

Channeled Hot Water Suction & Discharge

**Construction:**
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile and steel helical wire
- Cover: Channeled EPDM rubber

**Operating temperature:**
- -40°C to +125°C (-40°F to +257°F)

**Application:**
- For suction and discharge of hot water in industrial applications

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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Water
Hot Water

**EHW026**
Flat Corrugated Hot Water Suction & Discharge

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**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Flat corrugated EPDM rubber

**Application:**
- For suction and discharge of hot water in industrial applications

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water

Hot Water

EHW025

Corrugated Hot Water Suction & Discharge

**Construction:**
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile and steel helical wire
- Cover: Corrugated EPDM rubber

**Application:**
- For suction and discharge of hot water in industrial applications

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Operating temperature:**
- -40°C to +125°C
  (-40°F to +257°F)

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Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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<th>Part No.</th>
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**EHW024**

**Hot Water Suction & Discharge**

**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** EPDM rubber

**Application:**
- For suction and discharge of hot water in industrial applications

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Cam and groove
- Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water

Hot Water

EHW023

Hot Water Discharge

Construction:
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile
- Cover: EPDM rubber

Operating temperature:
-40°C to +125°C
(-40°F to +257°F)

Application:
- For delivery of hot water in industrial applications

Markets:
- Automotive
- Industrial

Type of couplings:
- Cam and groove
- Combination nipple

Safety Information:
Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.

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</table>
**Construction:**  
*Tube:* Synthetic rubber  
*Reinforcement:* High-tensile synthetic textile  
*Cover:* Synthetic rubber

**Application:**  
*For delivery of hot water with very light chemical content in industrial applications*

**Markets:**  
*Automotive*  
*Industrial*

**Type of couplings:**  
*Cam and groove*  
*Combination nipple*

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

### EHW036 Hot Water Discharge

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
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</table>

Refer to warnings and safety information in Section N.  
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Water

Wash down

**EC116**

**Wash Down hose**

Meets EN1829-2

**Construction:**
- Tube: Synthetic rubber
- Reinforcement: One wire braid
- Cover: Smooth synthetic rubber. Available in Blue or Grey

**Operating temperature:**
-40°C to +150°C
(-40°F to +302°F)

**Application:**
- Medium pressure with hot water cleaning applications
- For pressure washer application only

**Markets:**
- Food, car wash and labor, public areas

**Type of couplings:**
- One-piece TTC

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

*Product also available in Blue (BU) or Grey (GY)*

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
<td>mm</td>
</tr>
<tr>
<td>EC116-04BU</td>
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<td>0.25</td>
<td>13.0</td>
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<td>300</td>
<td>4380</td>
<td>900</td>
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<tr>
<td>EC116-05BU</td>
<td>7.9</td>
<td>0.31</td>
<td>14.4</td>
<td>0.57</td>
<td>300</td>
<td>4380</td>
<td>900</td>
</tr>
<tr>
<td>EC116-06BU</td>
<td>9.5</td>
<td>0.37</td>
<td>16.3</td>
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<td>4380</td>
<td>900</td>
</tr>
<tr>
<td>EC116-08BU</td>
<td>12.7</td>
<td>0.50</td>
<td>19.8</td>
<td>0.78</td>
<td>300</td>
<td>4380</td>
<td>900</td>
</tr>
</tbody>
</table>

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Construction:
Tube: Synthetic rubber
Reinforcement: Two wire braid
Cover: Oil, abrasion and weather resistant special synthetic rubber. Available in Blue or Grey

Operating temperature:
-40°C to +150°C
(-40°F to +302°F)

Application:
• High pressure with hot water cleaning applications
• For pressure washer application only

Markets:
• Food, car wash and labor, public areas

Type of couplings:
• One-piece TTC

Contact coupling manufacturer for attachment procedure and other coupling recommendations

EC216 Wash Down hose
Meets EN1829-2

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
<td>mm</td>
</tr>
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<td>0.25</td>
<td>14.2</td>
<td>0.56</td>
<td>500</td>
<td>7250</td>
<td>1500</td>
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<td>500</td>
<td>7250</td>
<td>1500</td>
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<tr>
<td>EC216-06BU</td>
<td>9.5</td>
<td>0.37</td>
<td>18.0</td>
<td>0.71</td>
<td>500</td>
<td>7250</td>
<td>1500</td>
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<tr>
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<td>0.85</td>
<td>500</td>
<td>7250</td>
<td>1500</td>
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* Product also available in Blue (BU) or Grey (GY)
Water Wash Down

EC910 SAFESHIELD Waterblast hose
Meets: ISO 7751, EN1829-2 (impulse)

Construction:
- Tube: Synthetic rubber
- Reinforcement: Heavy 4-spiral wire
- Cover: DURA-TUFF synthetic rubber cover

Application:
- High pressure cleaning

Markets:
- Mining
- Construction
- Equipment rental

Type of couplings:
- Contact Eaton for approved Internal skive fittings and sockets.

Operating temperature:
-40°C to +93°C (-40°F to +200°F)
Continuous service temperature range
-10°C to +80°C (-14°F to +176°F)

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
<td>mm</td>
</tr>
<tr>
<td>EC910-08C50</td>
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<td>24,6</td>
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<td>11000</td>
<td>16000</td>
<td>228,6</td>
<td>9.00</td>
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<td>0.75</td>
<td>32,8</td>
<td>1.29</td>
<td>10000</td>
<td>14500</td>
<td>279,4</td>
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<td>6900</td>
<td>10000</td>
<td>304,8</td>
<td>12.00</td>
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</table>

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**EHW008**

**Tank Cleaning**

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile and dual anti-static copper wire
- **Cover:** EPDM

**Operating temperature:**
-40°C to +125°C
(-40°F to +257°F)

**Application:**
- For tank cleaning applications

**Markets:**
- Construction
- Industrial

**Type of couplings:**
- Ground joint
- Male NPT

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**

<table>
<thead>
<tr>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>54</td>
<td>2.13</td>
<td>28</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>83</td>
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<td></td>
<td></td>
<td>1,63</td>
<td>1.10</td>
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<td>2.68</td>
<td>28</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,29</td>
<td>1.54</td>
</tr>
</tbody>
</table>

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Operating temperature:**
- -40°C to +80°C
  (-40°F to +176°F)

**Application:**
- For artificial snow equipment

**Markets:**
- Artificial snow

**Type of couplings:**
- Male NPT
  Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Part No. * Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Weight | Length |
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
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<td>67</td>
<td>2.64</td>
<td>41</td>
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</table>

* Product also available in BK-Black, RD-Red, and YW-Yellow.

---

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
EHW022

**Heavy Duty Radiator Car Heater**

**Construction:**
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile
- Cover: EPDM rubber

**Operating temperature:**
-40°C to +125°C
(-40°F to +257°F)

**Application:**
- For delivery of hot water in industrial applications

**Markets:**
- Industrial
- Automotive

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D. (mm/in)</th>
<th>Hose O.D. (mm/in)</th>
<th>Max Operating Pressure (bar/psi)</th>
<th>Burst Pressure (bar/psi)</th>
<th>Minimum Bend Radius (mm/in)</th>
<th>Weight (kg/m/lbs/ft)</th>
<th>Length (ft)</th>
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<tbody>
<tr>
<td>EHW022-06-</td>
<td>9.5 (0.38)</td>
<td>17 (0.67)</td>
<td>10.5 (150)</td>
<td>31 (450)</td>
<td>80 (3.15)</td>
<td>0.18 / 0.12</td>
<td>300</td>
</tr>
<tr>
<td>EHW022-08-</td>
<td>12.7 (0.50)</td>
<td>20 (0.79)</td>
<td>10.5 (150)</td>
<td>31 (450)</td>
<td>105 (4.13)</td>
<td>0.22 / 0.14</td>
<td>300</td>
</tr>
<tr>
<td>EHW022-10-</td>
<td>15.9 (0.62)</td>
<td>23 (0.91)</td>
<td>10.5 (150)</td>
<td>31 (450)</td>
<td>160 (6.30)</td>
<td>0.25 / 0.17</td>
<td>300</td>
</tr>
<tr>
<td>EHW022-12-</td>
<td>19.0 (0.75)</td>
<td>28 (1.10)</td>
<td>10.5 (150)</td>
<td>31 (450)</td>
<td>190 (7.48)</td>
<td>0.39 / 0.26</td>
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<tr>
<td>EHW022-16-</td>
<td>25.4 (1.00)</td>
<td>34 (1.34)</td>
<td>10.5 (150)</td>
<td>31 (450)</td>
<td>250 (9.84)</td>
<td>0.49 / 0.33</td>
<td>300</td>
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</tbody>
</table>

**Water – Specialty**

Refer to warnings and safety information in Section N.
Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber

**Operating temperature:**
-40°C to 120°C (-40°F to 248°F)

**Application:**
- For hot water discharge in industrial application

**Markets:**
- Industrial
- Automotive

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**EHW021 Radiator Car Heater**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar psi</td>
<td>bar psi</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>12,5 180</td>
<td>0,12</td>
<td>0.08</td>
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<td>0.31</td>
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<td>12,5 180</td>
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<td>0,17</td>
<td>0.11</td>
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<td>0.50</td>
<td>4,0 60</td>
<td>12,5 180</td>
<td>0,26</td>
<td>0.17</td>
</tr>
<tr>
<td>EHW021-10-</td>
<td>15,9</td>
<td>0.62</td>
<td>4,0 60</td>
<td>12,5 180</td>
<td>0,29</td>
<td>0.19</td>
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<td>0.75</td>
<td>4,0 60</td>
<td>12,5 180</td>
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<td>0.26</td>
</tr>
<tr>
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<td>12,5 180</td>
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<td>0.43</td>
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</table>

Refer to warnings and safety information in Section N. Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
**Construction:**
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile
- Cover: EPDM rubber

**Operating temperature:**
- -40°C to +125°C
  (-40°F to +257°F)

**Application:**
- Conveying hot water mixed with anti-freeze liquids in cooling systems, automotive and stationary engines

**Markets:**
- Automotive engine
- In-plant transfer
- Cooling systems

**Type of couplings:**
- Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### EHW002 Radiator Hose

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
</tr>
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<td>EHW002-08-</td>
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<td>19.0</td>
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<td>60</td>
<td>12.5</td>
<td>180</td>
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<td>60</td>
<td>12.5</td>
<td>180</td>
</tr>
<tr>
<td>EHW002-12-</td>
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<td>4.0</td>
<td>60</td>
<td>12.5</td>
<td>180</td>
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<td>4.0</td>
<td>60</td>
<td>12.5</td>
<td>180</td>
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<tr>
<td>EHW002-16-</td>
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<td>26.0</td>
<td>4.0</td>
<td>60</td>
<td>12.5</td>
<td>180</td>
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<td>4.0</td>
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<td>12.5</td>
<td>180</td>
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<td>12.5</td>
<td>180</td>
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<td>56.0</td>
<td>4.0</td>
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<td>12.5</td>
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<tr>
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<td>EHW002-56-</td>
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<td>12.5</td>
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<tr>
<td>EHW002-64-</td>
<td>101.6</td>
<td>111.5</td>
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<td>60</td>
<td>12.5</td>
<td>180</td>
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</tbody>
</table>
Water
Sewer cleaning

**EHS520**

**Sewer Jetting**

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For high pressure water cleaning and rinsing of sewage systems

**Markets:**
- Waste management

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Specifications Table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>bar psi</td>
<td>mm in</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<tr>
<td>EHS520-08-</td>
<td>12.7</td>
<td>25.0</td>
<td>98</td>
<td>200 2900</td>
<td>65 2.56</td>
<td>0.43</td>
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<tr>
<td>EHS520-10-</td>
<td>15.9</td>
<td>28.0</td>
<td>1.10</td>
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<td>0.45</td>
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<tr>
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<td>48.0</td>
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<td>200 2900</td>
<td>150 5.91</td>
<td>1.23</td>
<td>0.83</td>
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</table>
Water
Sewer cleaning

EHS540

Sewer Jetting

**Construction:**
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber

**Operating temperature:**
-40°C to +70°C
(-40°F to +158°F)

**Application:**
- For high pressure water cleaning and rinsing of sewage systems

**Markets:**
- Waste management

**Type of couplings:**
Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS540-08-</td>
<td>12.7 mm</td>
<td>25.0 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
<td>65 mm</td>
<td>0.44 kg/m</td>
<td>0.30 lbs/ft</td>
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<tr>
<td>EHS540-10-</td>
<td>15.9 mm</td>
<td>28.0 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
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<td>0.48 kg/m</td>
<td>0.32 lbs/ft</td>
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<tr>
<td>EHS540-12-</td>
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<td>31.6 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
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<td>0.56 kg/m</td>
<td>0.38 lbs/ft</td>
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<tr>
<td>EHS540-16-</td>
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<td>39.3 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
<td>100 mm</td>
<td>0.78 kg/m</td>
<td>0.52 lbs/ft</td>
</tr>
<tr>
<td>EHS540-20-</td>
<td>31.8 mm</td>
<td>48.0 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
<td>130 mm</td>
<td>1.06 kg/m</td>
<td>0.71 lbs/ft</td>
</tr>
<tr>
<td>EHS540-24-</td>
<td>38.1 mm</td>
<td>54.0 mm</td>
<td>250 bar 3625 psi</td>
<td>625 bar 9065  psi</td>
<td>150 mm</td>
<td>1.25 kg/m</td>
<td>0.84 lbs/ft</td>
</tr>
</tbody>
</table>

Refer to warnings and safety information in Section N.

Use of damaged hose or improper use may result in bodily injury or property damage. Please consult Eaton catalog or Technical Support for proper application.
Couplings General Information

Coupling Selection

This catalog lists the most common type of coupling used for each hose. Consider the following items when selecting couplings for your application. Consult your coupling manufacturer and Eaton for further information about these items:

- Environment
- Temperature ranges - external environment year round, temperature of material being conveyed, and temperature of cleaning solution
- Maximum pressure requirements
- Corrosive resistance and compatibility with material being conveyed
- Conductivity - especially in flammable applications (non-spark brass cam lever arms)
- Gasket material required, if any, keeping in mind compatibility with the material being conveyed
- Port or fitting the hose assembly must be connected to
- Coating (if any) on coupling (i.e. zinc, etc.)

Selecting Couplings: Safety Information

Choosing the correct coupling is important for maximum hose efficiency and safety. Couplings must be applied properly. Incorrect or improperly applied couplings can result in shorter hose life and hose failures. These failures can result in serious bodily harm or property damage.

Hose couplings have been carefully engineered over the years to meet specific safety requirements.

Some factors you should consider when choosing the proper coupling for a particular application are:

1. What is the material to be handled?
   a) Is it dangerous?
   b) Is it corrosive?
   c) Is it abrasive?
2. What are the pressures involved?
   a) High pressure
   b) Medium pressure
   c) Low pressure
   d) Suction
3. What means of connection are required?
   a) Threads
   b) Special locking
   c) Flanged ends

When selecting couplings, the end user should inform the distributor of the application and pressures involved when ordering hose assemblies, and it’s up to the distributor to supply the right hose and coupling for that application.

All hose assemblies should be treated with respect as potential hazards. Fittings, clamps or clips should be checked on a regular basis, and removed from service if damaged.

Shank length of coupling should be 1-1/2 times the inside diameter of the hose.

Combination nipples should only be used for suction and low pressure discharge applications.

⚠️ WARNING: Consult with the Coupling Manufacturer to make sure you choose the correct coupling and proper assembly for the application. Such matching of hose and couplings, and assembling of couplings, should be performed only by trained personnel using proper tools and procedures. Failure to follow manufacturer’s instructions or failure to use trained personnel may result in serious bodily injury and/or property damage.
**Couplings General Information**

**Coupling Selection**

There are two general types of couplings to consider, **field-attachable and permanent**.

**Field-attachable couplings** are usually secured by one of the following methods; flat bands, single bolt, double bolt or interlocking clamps.

Band clamps are generally used for applications requiring cam and groove style couplings (less than 150 psi). Bolt clamps generally offer greater security than bands and are therefore chosen more often for higher pressure applications. They can also be retightened after a hose has been in service.

**Permanent couplings** are also used in applications where you could see pressures greater than 150 psi. These end fittings are swaged, crimped or internally expanded onto the hose. Internal expansion couplings exist for full-flow applications and allow easier assembly cleaning.
## Examples of Coupling Configurations

### Short Shank

<table>
<thead>
<tr>
<th>Service</th>
<th>Low pressure air and water service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Range</td>
<td>3/16” to 1”</td>
</tr>
<tr>
<td>Description</td>
<td>Cast brass with serrated shank; GHT, NPSM or NPT male and NPSH female; washer seal</td>
</tr>
<tr>
<td>Attachment</td>
<td>Clamps or bands</td>
</tr>
</tbody>
</table>

### Long Shank

<table>
<thead>
<tr>
<th>Service</th>
<th>Medium pressure air, water, sanitary and liquids in suction or discharge service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Range</td>
<td>3/8” to 4”</td>
</tr>
<tr>
<td>Description</td>
<td>Machined steel or brass with serrated shank; NPT or NPSM male and female; thread seal to NPT and washer seal to NPSM female</td>
</tr>
<tr>
<td>Attachment</td>
<td>Bands or clamps</td>
</tr>
</tbody>
</table>

### Barbed Insets

<table>
<thead>
<tr>
<th>Service</th>
<th>Low or medium pressure air, water and fluids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Range</td>
<td>3/16” to 1”</td>
</tr>
<tr>
<td>Description</td>
<td>Machined brass with serrated shank; NPT or NPTF male and rigid female, and NPSM swivel female; thread seal to NPT or NPTF female, and ball end or washer seal to NPSM female</td>
</tr>
<tr>
<td>Attachment</td>
<td>Bands or clamps</td>
</tr>
</tbody>
</table>

### Interlocking

<table>
<thead>
<tr>
<th>Service</th>
<th>High pressure air and water service, steam, high pressure spray, and LPG service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Range</td>
<td>1/4” to 6”</td>
</tr>
<tr>
<td>Description</td>
<td>Plated malleable iron; insert and spud may be either steel or malleable iron; NPT male and female with ground joint or washer seal</td>
</tr>
<tr>
<td>Attachment</td>
<td>Four bolt or two bolt interlocking clamps</td>
</tr>
</tbody>
</table>
Examples of Coupling Configurations, continued

**Quick Acting**

- **Service:** Low to medium pressure; air, water or oil service where frequent and fast connections must be made
- **Size Range:** 1/4” to 2”
- **Description:** Plated malleable iron, stainless steel or bronze
- **Attachment:** Interlocking clamps or bands

**Water Suction**

- **Service:** Heavy duty water discharge and suction service
- **Size Range:** 1” to 8”
- **Description:** Malleable iron, aluminum and/or brass
- **Attachment:** Clamps or bands

**Interlocking Clamp**

- **Service:** Heavy duty high pressure applications such as air, steam, water, spray, LPG service
- **Size Range:** 9/16” to 7 3/16” hose O.D.
- **Description:** Malleable iron, plated
- **Attachment:** Clamps bolted into position

**Cam and Grove**

- **Service:** Low and medium pressure water, petroleum and chemical transfer where fast connections are needed; also used for suction service
- **Size Range:** 1/2” to 8”
- **Description:** Aluminum, bronze, stainless steel, Monel, malleable iron; washer seal with no threads
- **Attachment:** Clamps, bands, or crimp/swage ferrules
Examples of Coupling Configurations, continued

**Swaged or Crimped**
- **Service:** For use on all types of hose where high pressures are used
- **Size Range:** 1 1/4” to 8”
- **Description:** Couplings consist of swaged fittings having serrated steel shanks with ferrules of plated steel
- **Attachment:** Swaging or crimping equipment

**Combination Nipple**
- **Service:** Low or medium pressure suction and discharge of water, fluids, and material handling
- **Size Range:** 1/2” to 12”
- **Description:** Tubular steel, stainless, malleable iron, aluminum or brass with serrated shank; NPT male threads, grooved, or beveled for welding
- **Attachment:** Clamps or bands

**Steel Nipple**
- **Service:** Medium to high pressure: wide variety of applications.
- **Size Range:** 1/4” to 1”
- **Description:** Machined from cold drawn bar steel, heat treated for toughness
- **Attachment:** Interlocking clamps

**Single Bolt Clamp**
- **Service:** Low pressure, and suction service on shank couplings, combination nipples, and pipe nipples
- **Size Range:** 7/8” to 5 1/4” hose O.D.
- **Description:** Cast malleable iron, plated.
- **Attachment:** Bolted on hose
Examples of Coupling Configurations, continued

Double Bolt Clamp

Service: Low or medium pressure, and suction service with large sizes of combination nipples, or couplings
Size Range: 3 1/2” to 17 1/2” hose O.D.
Description: Cast malleable iron, plated, and brass
Attachment: Applied over hose and bolted into position

Band Clamp

Service: Low or medium pressure, and suction service
Size Range: 3/4” to 6” hose O.D.
Description: Pre-formed flat stainless steel, high carbon steel
Attachment: Special locking band tool

Wire Hose Clamp

Service: Suitable for medium pressure, air, water or general purpose hose; good for hose with helical wire or corrugations; available in larger sizes for pin lug, serrated pipe nipple or combination nipples
Size Range: 5/8” to 13 1/4” hose O.D.
Description: Pre-formed round wire made of stainless steel, galvanized steel, copper, bronze or aluminum
Attachment: Wire ends pulled and crimped with special tool or machine

Brass Ferule

Service: Low or medium pressure air or water using general purpose hose and brass inserts
Size Range: 31/64” to 1 1/2” hose O.D
Description: Made from various gauge brass tubing; stamped with standard industrial part number
Attachment: Crimped on using either ribbed or plain die
Notes
### Chemical resistance properties:

The following list of chemicals is offered as a guide to the chemical resistance properties of the tube material of the hoses shown. It should be used as a guide only, as the degree of resistance of any elastomer to a particular fluid depends upon such variables as temperature, concentration, pressure conditions, velocity of flow, duration of exposure, aeration, stability of the fluid, etc.

Therefore, when in doubt, it is advisable not to use the hose. If this is not practical, tests should be devised that simulate actual service conditions as nearly as possible. Eaton offers additional technical assistance.

---

**WARNING – Selection of hose:**

Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the fittings for your application can result in serious bodily injury or property damage resulting from spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from selection of the wrong fitting, you should carefully review the information in this catalog.

**WARNING – Chemical resistance properties:**

The following list of chemicals is offered as a guide to the chemical resistance properties of the tube material of the hoses shown. It should be used as a guide only, as the degree of resistance of any elastomer to a particular fluid depends upon such variables as temperature, concentration, pressure conditions, velocity of flow, duration of exposure, aeration, stability of the fluid, etc.

Therefore, when in doubt, it is advisable not to use the hose. If this is not practical, tests should be devised that simulate actual service conditions as nearly as possible. Eaton offers additional technical assistance.

---

### Chemical compatibility chart

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Hose and Tubing material</th>
<th>Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UHMW</td>
<td>XLPE</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Acetic Acid (Concentrated)</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Acetic Acid (Dilute)</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Acetic Anhydride</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Acetone</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Acrylonitrile</td>
<td>G</td>
<td>G</td>
</tr>
</tbody>
</table>

**Alcohols:**

- **Amyl Alc.**
- **Butyl Alc., Butanol**
- **Ethyl Alc., Ethanol**
- **Isopropyl Alcohol Isopropanol**
- **Methyl Alcohol Methanol**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Hose and Tubing material</th>
<th>Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G</td>
<td>G</td>
</tr>
</tbody>
</table>

- G - Good
- F - Fair
- X - Not Recommended
- — - Insufficient Information
- *For Intermittent Transfer Only
- **Use Approved Freon Hose
- ***Use Propane Approved Hose Only
- Use Pinpricked Hose for Gas Applications
## Chemical Resistance

### Charts

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Hose and Tubing material</th>
<th>Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UHMW</td>
<td>XLPE</td>
</tr>
<tr>
<td>Aluminum Chloride</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Aluminum Fluoride</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Aluminum Hydroxide</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Aluminum Nitrate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Aluminum Sulfate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Alums</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Ammonia, Anhydrous</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Ammonia Solution (10%)</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
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<tr>
<td>Ammonium Hydroxide</td>
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<td>G</td>
</tr>
<tr>
<td>Ammonium Nitrate</td>
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<td>G</td>
</tr>
<tr>
<td>Ammonium Phosphate</td>
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<td>G</td>
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<tr>
<td>Ammonium Sulfate</td>
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<td>G</td>
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<tr>
<td>Amyl Acetate</td>
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<td>Amyl Alcohol</td>
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<td>Aniline</td>
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<td>Aniline Dyes</td>
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<td>Asphalt Emulsion</td>
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<tr>
<td>Barium Chloride</td>
<td>G</td>
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</tr>
<tr>
<td>Barium Hydroxide</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Barium Sulfate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Barium Sulfide</td>
<td>G</td>
<td>G</td>
</tr>
</tbody>
</table>

---

G - Good   F - Fair   X - Not Recommended   — - Insufficient Information  
*For Intermittent Transfer Only    **Use Approved Freon Hose  
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### Chemical Resistance

**Charts**

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<th>Hose and Tubing material</th>
<th>Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UHMW</td>
<td>XLPE</td>
</tr>
<tr>
<td>Beet Sugar Liquors</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Benzene, Benzol</td>
<td>G*</td>
<td>G*</td>
</tr>
<tr>
<td>Benzoic Acid</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Black Sulfate Liquor</td>
<td>G</td>
<td>F</td>
</tr>
<tr>
<td>Bleach Solution</td>
<td>F</td>
<td>F</td>
</tr>
<tr>
<td>Borax Solution</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Brake Fluid (Glycol Ether Base)</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Brine</td>
<td>G</td>
<td>G</td>
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<tr>
<td>Bromine</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Butyl Acetate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Butyl Alcohol, Butanol</td>
<td>G</td>
<td>G</td>
</tr>
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G - Good  F - Fair  X - Not Recommended  — - Insufficient Information  *For Intermittent Transfer Only  **Use Approved Freon Hose  ***Use Propane Approved Hose Only  ○ Use Pinpricked Hose for Gas Applications
## Chemical Resistance

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G - Good  F - Fair  X - Not Recommended  — - Insufficient Information  *For Intermittent Transfer Only  **Use Approved Freon Hose  ***Use Propane Approved Hose Only  ♦ Use Pinpricked Hose for Gas Applications
### Chemical Resistance

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- **G** - Good
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- ****Use Approved Freon Hose

***Use Propane Approved Hose Only
○ Use Pinpricked Hose for Gas Applications
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***Use Propane Approved Hose Only  ◊Use Pinpricked Hose for Gas Applications
### Chemical Resistance Charts

<table>
<thead>
<tr>
<th>Fluid</th>
<th>hose and tubing material</th>
<th>Metals</th>
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<tbody>
<tr>
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<td>Lindol</td>
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<td>Linseed Oil</td>
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<td>Lubricating Oils</td>
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<td>Lye</td>
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<td>Methyl Isopropyl Ketone</td>
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<td>Methyl Methacrylate</td>
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<td>Naphthalene</td>
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<thead>
<tr>
<th>Fluid</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td>UHMW</td>
<td>XLPE</td>
</tr>
<tr>
<td>Nickel Acetate</td>
<td>G</td>
<td>G</td>
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<tr>
<td>Nickel Chloride</td>
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<td>G</td>
</tr>
<tr>
<td>Nickel Sulfate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Nitric Acid (under 35%)</td>
<td>G</td>
<td>F*</td>
</tr>
<tr>
<td>Nitric Acid (35% to 60%)</td>
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<tr>
<td>Nitric Acid (over 60%)</td>
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<tr>
<td>Nitrobenzene</td>
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<td>G</td>
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<tr>
<td>Nitrous Oxide</td>
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<td>X</td>
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<tr>
<td>Oleic Acid</td>
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<tr>
<td>Oleum (Fuming Sulfuric Acid)</td>
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<tr>
<td>Oxalic Acid</td>
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<tr>
<td>Oxygen (non-breathing, non-welding)</td>
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<td>Ozone (300 ppm)</td>
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<td>Paint (Solvent Base)</td>
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<td>Perchloro-ethylene</td>
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<td>Petroleum Ether</td>
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<td>Phosphoric Acid (to 85%)</td>
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<tr>
<td>Picric Acid (Solution)</td>
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<tr>
<td>Potassium Chloride</td>
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</table>

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◆ Use Pinpricked hose for gas applications
# Chemical Resistance

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<thead>
<tr>
<th>Fluid</th>
<th>Hose and Tubing material</th>
<th>Metals</th>
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<tbody>
<tr>
<td>Potassium Cyanide</td>
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<td>Potassium Dichromate</td>
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<td>Sodium Cyanide</td>
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<td>Sodium Silicate</td>
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</table>

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## Chemical Resistance

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<th>Hose and Tubing material</th>
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<tr>
<td></td>
<td>UHMW</td>
<td>XLPE</td>
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<td>Sodium Sulfate</td>
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<td>Sulfuric Acid (under 50%)</td>
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<td>Sulfuric Acid (51% to 70%)</td>
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<td>Turpentine</td>
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<tr>
<td>Urea (Water Solution)</td>
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</tbody>
</table>

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# Chemical Resistance

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<tbody>
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<td></td>
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<td>Vinegar</td>
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<td>Vinyl Acetate</td>
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<td>Water (non-potable)</td>
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<td>Water—Glycol Mixture</td>
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<td>Water—Petroleum Mixture</td>
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<td>Xylene</td>
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General Hose Information

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Hose maintenance ........................................ N-5
Troubleshooting .......................................... N-10
Flow rate, Pressure drop and Flow capacity ........ N-11
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General Hose Information
Hose construction and hose selection

Hose Construction
A hose consists of three components including the tube, reinforcement, and cover. Each component serves an important function in contributing to the overall performance of the hose.

Components of a hose:

Tube functions:
- Conveys media
- Temperature resistant
- Protects reinforcement and cover
- Dissipates static electricity

Reinforcement functions:
- Supports pressure/vacuum
- Supports tube
- Controls elongation/shrinking of hose OD/ID
- Helps fitting retention

Reinforcement types:
1) Braid - carbon steel or fiber
2) Spiral - carbon steel or fiber
3) Helical - carbon steel

Cover functions:
- Protects reinforcement from external environment
- Provides weather, abrasion, chemical, temperature, and ozone resistance

Hose Selection
Selecting the proper hose for an application is critical to ensure safety of people and property, as well as long hose life. Therefore, it is important to understand the factors involved.

Factors include:
- Application
- Pressure and/or suction
- Environment
- Compatibility with material conveyed
- Temperature
- Size
- Flexibility
- Bend radius
- Weight

Application
The first step in properly selecting a hose is to identify the application and material to be transferred. Then consider the hoses available for that type of service. Eaton Industrial hose is intended for specific applications and materials.

WARNING Hose use and care: Never use a hose to transfer material it is not specifically meant to transfer. Doing so could deteriorate the hose and result in leaking, hose bursting, or end blow-offs. This could lead to serious personal injury or death. Always transfer material in a hose that is designed specifically to transfer that material.

Some types of hose include a body reinforcing wire. This wire can be used for electrical continuity provided that proper contact is made between it and the hose coupling. This can be done by extending the body wire to the ends of the hose, or by attaching a light static wire to the outermost coils of the body wire. This lighter wire is led through the ends of the hose and attached to the couplings. In nonwire reinforced hose, a static wire can be included in the hose body.

The tendency has been toward a grounding connection completely separate from the hose or to have the tube or cover of the hose conducting. An internal static wire could break or lose contact with the couplings and not be detected visually. This could occur from an unusual stress imposed on the hose.

Finally, be aware that many industries have governing agencies that issue mandatory or suggested guidelines for the use of hose in certain applications.
General Hose Information

Hose construction and hose selection

Pressure & Suction

The selected hose and coupling must be able to continually withstand the maximum pressure that will be generated in the application.

WARNING Hose use and care: Consider both working pressure and pressure surges when determining “maximum” pressure. Failure to select a hose that meets both these requirements could lead to end blow-offs, hose leakage, and hose bursting. The result could be serious injury or death. The Eaton Industrial hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

It may be reassuring to know that every length of Eaton Industrial chemical transfer hose is pressure tested to 1-1/2 times the working pressure before it is packaged and shipped.

CAUTION In suction applications, suction (or vacuum) considerations are as critical to hose life as pressure considerations. Hoses in these applications are vulnerable to crushing forces because the atmospheric pressure outside the hose is greater than the pressure inside the hose. A hose not having the proper suction rating for your applications may collapse and result in equipment failure.

Eaton Industrial suction hoses have helical wire reinforcement and are rated for full vacuum. “Inches of mercury” is the standard of measurement for vacuum. Full vacuum is equal to 29.92 inches of mercury.

Environment & Compatibility

Environment refers to both the external environment and the internal environment in which the hose will be working. Different components of the hose will be affected by these two types of environment.

Most hoses consist of three components: an inner tube, a reinforcement, and an outer cover.

Elastomers are the basic ingredient of all rubber compounds. However, be aware that when specifying tube and cover compounds, significant application differences may exist between two compounds listed as having the same basic elastomer.

These differences occur because compounds contain many materials in addition to elastomers. Some of these materials include processing aids, carbon black, vulcanization agents, accelerators, age resistors, and other ingredients.

Before making assumptions about the suitability of a particular hose for a given application, always read the “Applications” information for each specific hose listed in this catalog.

The first hose component, the inner tube, conveys the material being transferred. The tube must be compatible with these materials. This is the hose’s internal environment. Whenever you specify a Eaton Industrial hose, refer to the chemical resistance chart in this catalog.

DANGER Never transfer material in an inner tube that is not compatible with that material. Likewise, never use hose at temperatures, pressures, or chemical concentrations above those recommended by Eaton. Doing so will weaken or deteriorate the hose, leading to leakage, hose bursting, or end blow-offs. Personal injury or death can result.

The next hose component, the reinforcement, is the strength member of the hose. Reinforcement usually consists of fiber, thermoplastic, carbon steel, or stainless steel spirals, braids and coils. The helical coil is used in all hardwall hoses and is required in vacuum and suction applications. The coil is necessary to help the hose withstand atmospheric pressure that is greater than the internal pressure of the hose to prevent the hose from collapsing. It is usually made of steel or thermoplastic monofilament.
The final hose component is the **outer cover**. The outer cover protects the reinforcement from the external environment. It is usually rubber, thermoplastic, fiber, or metal. The hose outer cover must protect against weathering, abrasion, chemicals, extreme temperature ranges, ozone, and other adverse conditions.

The “Elastomers” chart in this catalog (page N-14) contains a listing of general characteristics of some common elastomers and their physical properties as they relate to specific service needs. When application questions arise, contact Eaton Technical Support.

If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.

Heat can be a catalyst for chemical reaction. When selecting an Eaton Industrial hose, consider both the ambient temperature and the temperature of the material being conveyed.

**WARNING** Do not use a hose at temperatures that exceed the hose temperature rating. Doing so could deteriorate the hose, leading to leaks, hose bursting, and end blow-offs. This could result in serious personal injury or death.

Cold temperatures are another consideration. Hose must be flexible and be able to withstand temperatures well below 0°F in some applications.

Be aware that rated hose temperatures do not imply that a hose can handle all materials within the listed temperature range and concentration.

For specific application information and hose temperature ratings, always follow the guidelines in this catalog, or contact Eaton Technical Support.

If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.

All chemicals listed in the chart are rated at 70°F unless otherwise stated.

**Size**

Size can refer to the length of the hose, the **inner diameter** (I.D.), and the **outer diameter** (O.D.). To determine the correct length of hose for an application, always remember to subtract the cut-off factor for each end fitting or coupling from the overall length of the assembly. For example, if the total length of the assembly needs to be 20 feet, and each end extends past the hose three inches, the cut-off factor is three inches at each end, or six inches total. Twenty feet minus six inches yields a hose length of 19-1/2 feet.

Remember to subtract the cut-off factor for each end fitting when preparing hose.

Inner diameter is important in relation to volume transfer requirements. The larger the hose inner diameter, the greater the volume of material that can be transferred in a given time.

**WARNING** Be aware that if you replace a hose with one having a different I.D. than the original hose, material velocity could increase or decrease, possibly creating static electricity. This could lead to an explosion causing serious injury or death.
Hose Maintenance

Hose has a limited life based on the severity and type of chemical contact, environment or exposure to heat and petroleum products. Eaton recommends the following maintenance procedure to determine when hose should be replaced.

General Test and Inspection Procedures for Hose

An inspection and hydrostatic test should be done periodically to ensure hose is suitable for continued service.

A visual inspection of the hose should be made for loose covers, kinks, bulges, or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of movement of the hose from the couplings, the hose should be removed from service.

The periodic inspection should include a hydrostatic test for one minute at 150 percent of the recommended working pressure of the hose. During the hydrostatic test, the hose should be straight, not coiled or in a kinked position. Water is the usual test medium and, following the test, the hose may be flushed with alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained.

Hose Inspection

Hose assemblies shall be inspected and tested immediately after the hose is subjected to abnormal abuse such as: severe end pull, flattening or crushing or sharp kinking. As you inspect a hose assembly, remember that most hose failures occur between the coupling and the first three feet along the hose length. Pay close attention to this area. Any hose that has been recoupled shall be prooftermed for one minute at 150 percent of the recommended working pressure of the hose, and inspected before being placed in service.

**SAFETY WARNING:** Before conducting any pressure tests on hose, provision must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct any pressure tests.

The following guidelines should be adhered to during testing and/or inspection:

1. Air or any other compressible gas must never be used as the test medium because of the explosive action of the hose should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.

2. Air should be removed from the hose by bleeding it through an outlet valve while the hose is being filled with the test medium.

3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10 foot (3m) intervals along its length to keep the hose from “whipping” if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.

4. The outlet end of hose is to be bulwarked so that a blown-out fitting will be stopped.

5. Provisions must be made to protect testing personnel from the forces of the pressure medium if a failure occurs.

6. Testing personnel must never stand in front of or in back of the ends of a hose being pressure tested.

7. If liquids such as gasoline, oil, solvent, or other hazardous fluids are used as the test fluid, precautions must be taken to protect against fire or other damage should a hose fail and the test liquid be sprayed over the surrounding area.

Visual Inspection

1. Hose

Any cuts, gouges or tears in the cover which do not expose the reinforcement should be repaired before the hose is returned to service. If the reinforcement is exposed, retire the hose from service.

Covers may show surface cracking or crazing due to prolonged exposure to sunlight, ozone, or high temperature during soak tank cleaning. Such deterioration, which does not expose reinforcing materials, is not cause for retirement. Check for signs of soft spots, blisters, and kinking. If soft spots exist, pressure test the hose assembly and determine whether it is necessary to discard it.

**WARNING** If cover blisters exist, be careful not to pop them. If the hose was damaged in such a way that material was allowed to leak between the cover and inner tube, the blisters may contain this material. If the material is hazardous and splatters when the blisters are popped, it could cause serious physical injury.
General Hose Information

Visual Inspection continued

Look for any indication of kinking or broken reinforcement as evidenced by any permanent distortion, longitudinal ridges, or bulges.

According to RMA IP-11-7 Chemical Hose Bulletin, crushed or kinked spots where the hose O.D. is reduced by 20 percent or more of the normal O.D. indicate the hose probably has internal damage. The hose assembly must be removed from service to ensure the safety of people in the work area.

WARNING: Kinks can cause hose to burst, leading to bodily harm.

Hose containing kinked or crushed spots where the hose O.D. is reduced by 20 percent may be used if the hose passes the hydrostatic tests. Use a caliper to measure the hose outer diameter at several places around the diameter to determine any O.D. reduction. An inspection mirror and a flashlight can be used to inspect the inner tube for abuse, wear, and/or chemical attack.

2. Couplings

All metals are subject to attack by various chemicals. Check with the manufacturer to make sure that suitable end fittings, appropriate to both the hose and the chemical being handled, are being used.

Exposed surfaces of couplings, flanges and nipples shall be examined for cracks or excessive corrosion. Either condition shall cause the hose assembly to be retired from service. Any evidence of coupling or nipple slippage on the hose is cause for removing the hose assembly from service.

The Rubber Manufacturers Association (RMA) has published a series of technical bulletins which detail maintenance, testing, and inspection recommendations.

Because the life expectancy of the hose is limited, the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

**SAFETY WARNING:** Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

**Hydrostatic Pressure Test**

For large-bore hose being used in dock service, an inspection card which describes the hose, manufacturer, date received, purchase order number, and date of installation should be maintained for each hose. The inspection card should be used to record the test results and condition of the hose.

Eaton recommends that new hose assemblies be hydrostatically tested before being placed in service. Hydrostatic testing should be done at periodic intervals to determine if a hose is suitable for continued service. The hydrostatic test and examination shall be conducted in the following manner.

**Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10 foot (3m) intervals along its length to keep the hose from “whipping” if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.**

1. Hose shall lie in a straight and horizontal position supported on rollers to permit easy movement when under the test pressure.

2. Water should be used as the test liquid. Never pressure test with solvents, corrosive liquids, or with compressed gases.

3. Fill the hose with water with the outlet end raised and the outlet valve open to ensure the complete removal of air. When all the air has been expelled, close the outlet valve and lower the raised end.

4. For new hose, raise the pressure to 2 times the rated working pressure of the hose and hold for 5 minutes. During this hold period, the hose shall be examined for leaks at the couplings, fitting slippage, or for any indication of weakness in the hose structure.

5. For used hose, test with a pressure of 1-1/2 times the rated working pressure of the hose for one minute and examine as above.

6. Completely relieve test pressure from the system prior to releasing hose from test equipment.

7. Thoroughly drain the water from the hose after completion of the hydrostatic test.

**Electrical Continuity**

When required by the user, electrical continuity between the fittings shall be tested using an ohm meter. The hose must be clean and dry for this test.
General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly was not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

Hose Repair

There are some circumstances in which chemical hoses can be repaired. For example, if a hose has been kinked near the coupling and a close inspection of the assembly reveals that this is the only damage, the assembly can be repaired.

WARNING Wear safety glasses, gloves, and protective clothing when cutting hose. They will help protect your eyes and skin from flying debris. When recoupling a used hose assembly, begin by cutting the hose far enough beyond the shank to eliminate the possibility of cutting into the shank. When cutting out a kink, cut behind the kink far enough so that the ID/OD of the remaining hose is round. Use calipers to confirm roundness. Make sure to cut the hose squarely. Next wipe the inner tube of the cut end with a clean rag.

Before recoupling the hose, make sure to carefully inspect the tube. This is important because it is easy to see the condition of the tube and reinforcement of the hose when the coupling is cut off. Look for any evidence of deterioration of the hose tube. If there are signs of deterioration, remove the hose assembly from service. If after close inspection none of these signs is present, the hose may be recoupled.

Any hose that has been used to convey an abrasive material, such as plastic pellets and powders, should not be recoupled due to the inherent thickness reduction that results from the transfer of abrasive materials.

Finally, pressure test and tag any recoupled assembly as recommended.

Storage

Proper storage conditions can enhance and extend substantially the ultimate life of hose products. Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials. The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose products vary considerably in size, weight, and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as would a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Storage Do’s:

- Whenever feasible, rubber hose products should be stored in their original shipping containers which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.
- Certain rodents and insects will damage rubber hose products, and adequate protection from them should be provided. Be sure ends are capped to keep out insects, rodents, and other contaminants that can damage the hose.
- Hose shipped in coils or bales should be stored so the coils are in a horizontal plane.

Storage Don’ts:

- Don’t pile or stack hose to such an extent that the weight of the stack distorts the lengths stored on the bottom. Remember that hose having a very light wall will not support as much load as a hose having a heavier wall or wire reinforcement.
General Hose Information

Hose maintenance

- Don’t store rubber products near heat sources such as radiators and base heaters, or near electrical equipment that might generate ozone. Also do not store hose for long periods in geographical areas of known high ozone concentration. Ozone ages rubber.
- Don’t expose hose to direct or reflected sunlight during storage. This ages rubber.
- Don’t store uncovered hose under fluorescent or mercury lamps. They generate light waves harmful to rubber.
- Don’t hang hose assemblies on hooks, nails, or other devices which could cut or damage hose.

The Rubber Manufacturers Association has published separately a series of Hose Technical Information bulletins describing hoses designed for different applications which detail Maintenance, Testing and Inspection recommendations. Refer to the ARPM Catalog of Publications, issued annually, to determine the availability of the latest edition. Bulletins published include the following:

**Publication No.**

IP 11—1— Steam Hose
IP 11—2— Anhydrous Ammonia Hose
IP 11—4— Oil Suction and Discharge Hose
IP 11—5— Welding Hose
IP 11—6— Fire Hose
IP 11—7— Chemical Hose
IP 11—8— Fuel Dispensing Hose

**ARPM**

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Washington, D.C. 20005
RMA Publications order desk: (800) 325-5095

**Proper Used Hose Storage**

Before placing used hose in storage, completely drain it and flush out any potentially explosive vapors or corrosive residues.

Also make sure you dispose of waste in a manner that complies with federal, state, and local environmental regulations.

### WARNING: Take extreme care when flushing out a chemical hose with water. Some chemicals, such as concentrated acids, may react with water and cause spattering. These materials can cause serious personal injury or death if they get into eyes or onto skin. Wear safety glasses, gloves and other protective clothing to help guard against this.

Continue by laying the hose assembly on a solid support, allowing air to circulate through it. This helps extend the hose life. Further, store the hose in a cool, dark, dry place at a temperature ideally between 50°F and 70°F.

**Proper Hose Handling**

Proper hose handling can help preserve hose assembly life and work environment safety. Therefore, consider the following points when handling hose assemblies.

- Avoid crushing or kinking the hose. This can cause severe damage to the reinforcement that isn’t always obvious when looking at the cover.
- Do not drag the hose or lift a large bore hose from the middle of its length with the ends hanging down. Doing so can cause kinking, cover cuts, hose reinforcement damage, and coupling damage.
- Limit the curvature of the hose to the minimum bend radius recommended by the manufacturer. Also avoid sharp bends at the end fittings and at manifold connections.
- Do not exceed pressure and temperature limits because this could damage the hose and ultimately result in serious bodily injury or property damage. Monitor pressure and temperature during hose use.
- Never allow chemicals, solvents, or any other hazardous materials to drip onto ground. Always comply with environmental laws.

**WARNING: Do not use damaged hose. Doing so could result in serious personal injury or death.**

- Never allow chemicals to drip on the exterior of a hose or allow hose to lay in a pool of chemicals. The hose cover may not have the chemical resistance of the tube. If a corrosive material comes into contact with the hose reinforcement, the result could be early hose failure.
- Avoid extreme flexing of the hose near the coupling. If necessary, use elbows in the piping system to assure a straight line connection with the hose.
- Protect hose from heat, flame, cutting, and twisting. Use shields or clamps to do this.
- Support hose to avoid mechanical strain on couplings.
- Be aware that dropping or dragging the assembly, chemical incompatibility, exposure to temperature extremes, or extensive internal coupling abrasion can cause leaks and reduce coupling retention.
Cleaning Hose Assemblies
Cleaning of hose assemblies should be done at a facility with the means of disposing of wastes and hazardous materials properly. All water and/or cleaning solutions used should be retained and disposed of in a way that complies with applicable laws.

Eaton Industrial does not recommend that distributors handle hose assemblies that have not been cleaned properly.

When you clean a tank or change the materials to be transferred, clean the hose assemblies. Three methods can be used: the soak tank, the closed loop system, or the rotating brush. The most appropriate method will depend on the hose use and location.

**WARNING:** Use of pressure wands to clean hose is not recommended. The high concentration of heat and pressure in a confined area can damage the hose inner tube and lead to hose bursting, leakage, spraying, or end blow-offs. This could cause serious personal injury or death.

**WARNING:** Always wear safety glasses, gloves, and protective clothing when cleaning hose, no matter which hose cleaning method you use. Otherwise, burns, blisters, eye damage or other injuries could occur.

Class Oil Resistance
Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of refined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long lasting service, the buyer of gasoline hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effects of oil on rubber depend on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and time of exposure. Rubber compounds can be classified as to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. As a guide to the user of the hose in contact with oil, the oil resistance classes and a corresponding description are listed.

### Physical Properties After Exposure to Oil

<table>
<thead>
<tr>
<th>Class</th>
<th>Volume Change Maximum</th>
<th>Tensile Strength Retained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A (High oil resistance)</td>
<td>+25%</td>
<td>80%</td>
</tr>
<tr>
<td>Class B (Medium-High oil resistance)</td>
<td>+65%</td>
<td>50%</td>
</tr>
<tr>
<td>Class C (Medium oil resistance)</td>
<td>+100%</td>
<td>40%</td>
</tr>
</tbody>
</table>
WARNING: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of hose for the application can result in serious bodily injury or property damage. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

Hose failures can be caused by conditions such as excessive pressures, fluid incompatibility, extreme temperatures and many more. Eaton has illustrated below some of the more common failures. If the conditions you are experiencing are not listed, please contact Eaton Technical Support.

If any questions arise please contact your usual Eaton Technical Support or Customer Support teams.

1. **Problem:** The hose has exposed reinforcement and a loose cover. This could be caused by an abrasive environment or the life of the hose has been exceeded.
   **Solution:** Route hose properly to avoid excessive abrasion. Some hoses are made with materials that handle abrasion better.

2. **Problem:** Cracks in the hose cover can be caused by prolonged exposure to sunlight, ozone or high temperatures.
   **Solution:** Store hose in cool dark areas when possible. Do not store or use the hose where the recommended temperature rating is exceeded.

3. **Problem:** Cuts, gouges, or tears in hose tube can be caused by improper cleaning with high-pressure water wand.
   **Solution:** Do not use high pressure water wand to clean hoses. Instead, three cleaning methods are commonly used: the soak tank, the closed loop system or the rotating brush. The most appropriate method will depend on the hose use and location.

4. **Problem:** Bubbling and flaking of the tube material caused by the tube not being compatible with the chemical being conveyed.
   **Solution:** Check the chemical resistance guidelines to make sure the hose you are using is compatible with the chemical being conveyed. Also, make sure the hose can handle the application temperatures.

5. **Problem:** Deterioration of the hose tube has caused the reinforcement to be exposed. This may be caused by abrasive material being conveyed through a hose not made for this abrasive material or hose life has been exceeded.
   **Solution:** Make sure that the hose can handle the material being conveyed. Possibly use a hose with a thicker tube.

6. **Problem:** Hose is kinked due to exceeding the minimum bend radius of the hose. The result is damaged reinforcement.
   **Solution:** To avoid this problem, check the minimum bend radius of the hose and route the hose so the minimum bend radius is not exceeded.

7. **Problem:** Improperly banded shank may create a possible leak path.
   **Solution:** Make sure the coupling is secured tightly and according to manufacturer’s specifications. Bands should be placed inside of the barbs on the coupling shank, toward the coupling side. The band farthest from the hose end should be tightened first. If two bands are present, Eaton suggests rotating the clamp buckles 180° from each other.

8. **Problem:** Overtightened band could cause leaks, spraying and end blow-offs. Band was applied with excessive pressure and cut the cover of the hose causing reinforcement to be exposed.
   **Solution:** Do not attach bands at pressures that are too high. Apply the bands to the manufacturer’s recommended settings.

9. **Problem:** The steam hose has developed cracks in the cover due to heat in the application.
   **Solution:** Steam hose has a limited service life. It should be inspected before every use. Any crack that exposes the reinforcement is a reason for the hose to be removed from service.
There are several factors which affect selection of a hose sized such that it will provide the desired rate of flow at the required pressure; these are:

- Hose size
- Hose length
- Hose fittings
- Material conveyed
- Bends
- Static head pressure

### Hose size

Undersized pressure lines produce excessive pressure drop with attendant energy loss and heating, and undersized suction lines cause cavitation at the pump inlet. Oversized hose assemblies, on the other hand, are excessively costly and generally too heavy.

In selecting hose for hydraulic systems, the following empirical values can be used to achieve minimum pressure drop consistent with reasonable hose size (see Chart 2):

- Velocity of pressure lines 7 to 15 ft./sec. Velocity of short pressure lines to 20 ft./sec.
- Velocity of suction lines 2 to 5 ft./sec.

To use Chart 2, lay a straight-edge across the chart as shown by the dotted line. To minimize pressure drop, always use the next larger size hose shown if the line passes between sizes listed.

### Hose fittings and Material conveyed

In most cases, the end fitting openings are slightly smaller than the hose itself. However, this varies widely with hose fitting designs from ‘full-flow’ ends which have the same I.D. as the hose, down to as much as 1/8” smaller I.D. than the hose bore. To allow for this, assume a 10-to-15% greater flow rate than actually measured in the system when determining pressure drop.

Chart 1 is based on water as the material conveyed, and for other fluids it is necessary to correct for the difference in specific gravity and viscosity.
### Temperatures of Saturated Steam at Various Pressures

<table>
<thead>
<tr>
<th>Lbs. per Sq. Inch Pressure</th>
<th>Degrees Fahrenheit</th>
<th>Degrees Centigrade</th>
<th>Lbs. per Sq. Inch Pressure</th>
<th>Degrees Fahrenheit</th>
<th>Degrees Centigrade</th>
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<tbody>
<tr>
<td>0</td>
<td>212.0</td>
<td>100.0</td>
<td>110</td>
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**WARNING** Steam heat is hotter than 212°F (boiling water) and increases in temperature as pressure increases.
Flow Capacities of Hose Assemblies at Suggested Flow Velocities

The chart below is designed and provided as an aid in the determination of the correct hose size.

**Example:** At 13 U.S. gallons per minute, what is proper hose size within the suggested velocity range for pressure lines?

**Solution:** Locate 13 U.S. gallons per minute in the left hand column and 10 feet per second in the right hand column (the center of the suggested velocity range for pressure lines). Lay a straightedge across the two points. The inside diameter is shown in the center column nearest the straight edge.

For suction hose, follow the same procedure except use suggested velocity range for pump inlet lines in the right hand column.

Based on Formula

\[
\text{AREA (SQ. IN.)} = \frac{\text{G.P.M.} \times 0.3208}{\text{VELOCITY (FT./SEC.)}}
\]

*Suggestions are for oils having a maximum viscosity of 315 S.S.U. at +100°F (+38°C) and operating at temperatures between +65°F and +155°F (+54°C to +69°C). Under certain conditions, velocities in pressure lines can be increased up to 25 feet per second. Contact Aeroquip with specific information on your application.

To convert U.S. gallons into Imperial gallons multiply U.S. gallons by 0.83267. Imperial gallons into U.S. gallons multiply Imperial gallons by 1.20095. U.S. gallons to litres multiply by 3.785. Litres to U.S. gallons, multiply by 0.2642.
### Elastomer chart

The chart below shows the general characteristics of some of the common rubber compounds. Elastomers are mixed with various chemicals to provide a wide range of physical properties for specific service needs.

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<tr>
<th>ASTM Designation</th>
<th>Common Name</th>
<th>Composition</th>
<th>General Properties</th>
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<tr>
<td>CR</td>
<td>Neoprene</td>
<td>Chloroprene</td>
<td>• Good abrasion&lt;br&gt;• Good weathering resistance&lt;br&gt;• Good oil resistance&lt;br&gt;• Flame retarding</td>
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<tr>
<td>NBR</td>
<td>Nitrile (Buna-N)</td>
<td>Acrylonitrile-butadiene</td>
<td>• Excellent oil resistance&lt;br&gt;• Moderate resistance to aromatics</td>
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<tr>
<td>IIR</td>
<td>Butyl</td>
<td>Isobutylene-isoprene</td>
<td>• Excellent ozone resistance&lt;br&gt;• Good resistance to fire resistant fluids&lt;br&gt;• Good heat resistance&lt;br&gt;• Low permeability&lt;br&gt;• Poor resistance to petroleum fluids</td>
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<tr>
<td>CIIR</td>
<td>Chlorinated Butyl</td>
<td>Chloro-isobutylene isoprene</td>
<td>• Same as Butyl</td>
</tr>
<tr>
<td>SBR</td>
<td>SBR</td>
<td>Styrene-butadiene</td>
<td>• Good abrasion resistance&lt;br&gt;• Poor resistance to petroleum fluids</td>
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<tr>
<td>EPM</td>
<td>Ethylene Propylene</td>
<td>Rubber Composition</td>
<td>• Excellent ozone resistance&lt;br&gt;• Excellent chemical resistance&lt;br&gt;• Good heat resistance&lt;br&gt;• Poor resistance to petroleum based fluids</td>
</tr>
<tr>
<td>EPDM</td>
<td>EPDM</td>
<td>Ethylene-propylene diene terpolymer</td>
<td>• Excellent ozone resistance&lt;br&gt;• Good chemical resistance&lt;br&gt;• Good temperature resistance&lt;br&gt;• Poor resistance to petroleum fluids</td>
</tr>
<tr>
<td>XLPE</td>
<td>Cross-Linked Polyethylene</td>
<td>Polyethylene &amp; cross linking agents</td>
<td>• Excellent chemical resistance</td>
</tr>
<tr>
<td>EVA</td>
<td>EVA</td>
<td>Ethylvinylacetate</td>
<td>• Excellent flexibility&lt;br&gt;• Chemical resistance</td>
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<tr>
<td>LLDPE</td>
<td>Linear, low density Polyethylene</td>
<td>Linear, low density Polyethylene</td>
<td>• Excellent ESCR resistant&lt;br&gt;• FDA Approved NSF 51 material available</td>
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<tr>
<td>Nylon 11</td>
<td>Nylon 11</td>
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<td>• Good chemical resistance</td>
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<tr>
<td>PVC/PU Blend</td>
<td>PVC/PU Blend</td>
<td>Polyvinyl fluoride/polyurethane Blend</td>
<td>• Excellent chemical resistance</td>
</tr>
<tr>
<td>PVDF</td>
<td>KYNAR®</td>
<td>Polyvinylidene flouride</td>
<td>• Excellent chemical resistance</td>
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<td>PA</td>
<td>Nylon</td>
<td>Polyamide</td>
<td>• Good abrasion resistance&lt;br&gt;• Good chemical resistance&lt;br&gt;• Low coefficient of friction</td>
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<td>CSM</td>
<td>Hypalon</td>
<td>Chloro-sulfonated Polyethylene</td>
<td>• Excellent ozone resistance&lt;br&gt;• Good abrasion resistance&lt;br&gt;• Good heat resistance&lt;br&gt;• Fair petroleum qualities</td>
</tr>
<tr>
<td>NR</td>
<td>Natural Rubber</td>
<td>Polyisoprene</td>
<td>• Excellent abrasion resistance&lt;br&gt;• Acid resistance&lt;br&gt;• Not oil resistant</td>
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<td>V-NBR</td>
<td>Vinyl Nitrile</td>
<td>PVC/NBR</td>
<td>• Good ozone resistance&lt;br&gt;• Good resistance to animal fats &amp; oils&lt;br&gt;• Good petroleum resistance</td>
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<td>UHMWPE</td>
<td>Ultra-high molecular weight polyethylene</td>
<td>Polyethylene</td>
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<td>CM</td>
<td>CPE</td>
<td>Chlorinated Polyethylene</td>
<td>• Excellent ozone resistance&lt;br&gt;• Excellent weathering resistance&lt;br&gt;• Good abrasion resistance&lt;br&gt;• Good heat resistance&lt;br&gt;• Good resistance to petroleum oils</td>
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<tr>
<td>XNBR</td>
<td>Carboxylated Nitrile</td>
<td>Carboxylated Acrylonitrile-butadiene</td>
<td>• Excellent abrasion resistance&lt;br&gt;• Excellent oil resistance&lt;br&gt;• Excellent weather resistance</td>
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<td>PTFE</td>
<td>Teflon</td>
<td>Polytetrafluoroethylene</td>
<td>• Excellent temperature resistance&lt;br&gt;• Excellent chemical resistance&lt;br&gt;• FDA accepted material&lt;br&gt;• Low coefficient of friction for high flow rates and easy cleaning&lt;br&gt;• Excellent resistance to thermocycling</td>
</tr>
<tr>
<td>PVC</td>
<td>PVC</td>
<td>Polyvinylchloride</td>
<td>• Resistant to many chemicals&lt;br&gt;• Good flexibility</td>
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<td>FEP</td>
<td>Teflon</td>
<td>Fluorinated Ethylene Propylene</td>
<td>• Excellent temperature resistance&lt;br&gt;• Excellent chemical resistance&lt;br&gt;• FDA accepted material&lt;br&gt;• Low coefficient of friction for high flow rates and easy cleaning&lt;br&gt;• Excellent resistance to thermocycling</td>
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KYNAR is a registered trademark of Arkema, Inc.
General Hose Information

Flow capacities pressure drop

Pressure drop in psi (pounds per square inch)/gpm (gallons per minute) for 10 feet of hose (smooth bore) without fittings.

**Fluid specification:**
Specific gravity = .85; Viscosity = v = 20 centistokes (C.S.), (20 C.S. = 97 S.S.U.).

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*Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100°F (+38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

To Convert

U.S. gallons into Imperial gallons multiply U.S. gallons by 0.83267. Imperial gallons into U.S. gallons multiply Imperial gallons by 1.20095. U.S. gallons to litres multiply by 3.785. Litres to U.S. gallons, multiply by 0.2642.
Hose index
Index

Made-to-order

Part
EC116
EC216
EC556
EC910
EHA500
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**Terms and Condition of Sale**

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