Delivering powerful solutions.
Reliable Solutions

Eaton Industrial Hose offers dependable parts and solutions to optimize Performance.

When you work with Eaton, you can count on a comprehensive range of products that are designed for harsh and hazardous operating environments that are part of the day-to-day requirements of your industry. Eaton delivers safe and reliable products to help sustain mission-critical systems working every hour of every day.

• Dependable Solutions to Drive Your Performance
• Innovation to Take on the Toughest Challenges
Reliable Solutions Service

Eaton Industrial Hose—Markets

Construction Industry

Chemical Plants

Mining

Oil & Gas Exploration

Steel Mill

Food and Beverage Industry

Tank Truck

Petrochemical

Applications

- Air transfer
- Cement transfer/placement
- Chemical transfer
- Food transfer
- Beverage dispensing
- Washdown applications
- LPG transfer
- Nitrogen transfer
- Hot air blower
- Dry material & bulk transfer
- Mud suction & discharge
- Frac application
- Oil transfer
- Gasoline dispensing
- Steam transfer
- Hydrocarbon drain
- Water suction & discharge
...and many more!
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.

**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.

### New Eaton Part Numbers

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### Old Eaton Part Numbers

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<td>EHP006 Soft Potable Water Discharge</td>
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<td>EHC019 Hard Wall Heavy Duty UHMW-PE S &amp; D</td>
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<td>EHC018 Hard Wall Heavy Duty Chemical S &amp; D</td>
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### Petroleum

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<td>I-5</td>
<td>EHJ002 Aircraft Refueling Discharge</td>
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<td>EHJ003 Aircraft Refueling S &amp; D</td>
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<td>EHP506 &amp; EHP507 Light Duty Dock Oil S &amp; D</td>
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<td>I-8</td>
<td>EHP511 Petroleum Dispensing</td>
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<td>EHP510 Petroleum Dispensing</td>
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<td>EHP508 Petroleum Dispensing</td>
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<td>I-11</td>
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<td>I-12</td>
<td>EHP522 Heavy Duty Petroleum/Oil S &amp; D</td>
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<td>I-13</td>
<td>EHP518 Petroleum/Oil S &amp; D</td>
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<td>EHP514 Petroleum/Oil S &amp; D</td>
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<td>H0327 JAGUAR™ HD Petroleum S &amp; D</td>
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<td>EHP502 High Pressure Petroleum/Oil S &amp; D</td>
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<td>EHP521 PUMA™ Cold Temperature S &amp; D</td>
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<td>EHP506 Channeled Petroleum/Oil S &amp; D</td>
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<td>J-8</td>
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<td>EHJ003 Steel Mill Non-Farm HD Cooling Water Trans</td>
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<td>EHJ004 Steel Mill HD Cooling Water Transfer</td>
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<td>EHJ005 Steel Mill Med Duty Cooling Water Transfer</td>
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<td>EHJ006 Steel Mill Heavy Duty Ceramic Coated</td>
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<td>EHW507 Industrial Welding Twin Line</td>
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<td>J-24</td>
<td>EHW505 Welding Rubberized Electrical Protection</td>
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<td>J-26</td>
<td>H0372 BLACK CAT™ Hot Tar &amp; Asphalt</td>
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<td>EH5501 Sweeper Sweeper Vacuum</td>
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<td>EH080 &amp; EH081 STEAM SLAYER™</td>
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<td>K-9</td>
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<td>EH507 Steel Wire Reinforced Steam</td>
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<td>EH506 Steel Wire Reinforced Steam</td>
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<td>K-12</td>
<td>H9688 Concord 250 Steam</td>
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<td>H9682 Concord Steam—Oil-resistant</td>
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<td>EJ SERIES EJ Series Crimp Couplings</td>
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### Water

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<td>H0364 OTTER™ Water S &amp; D</td>
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<td>EHW514 Channeled Water S &amp; D</td>
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<td>H360 Water Suction &amp; Discharge</td>
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<td>H306 &amp; H306 Flame Resistant MSHA Flat Delivery Water Discharge</td>
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<td>EH540 Sewer Jetting</td>
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**Introduction**
New Hose Selection
Worksheet

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 contact Eaton Technical Support at 1-888-258-0222.

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

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.

- Ozone
- Acids/caustics
- Animal fats (oils)
- Sparking or flames
- Cleaning with steam

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

If you have any questions, please contact Eaton Technical Support at 1-888-258-0222.
**Introduction**

Be sure to reference chemical compatibility recommendations in the Chemical Resistance Charts starting on page N-1 through N-11.

If you have any questions, please contact Eaton Technical Support at 1-888-258-0222.

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<table>
<thead>
<tr>
<th>S</th>
<th>Size (I.D., O.D. and length)</th>
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<tr>
<td>T</td>
<td>Temperature of material conveyed and environmental conditions</td>
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<tr>
<td>A</td>
<td>Application, the conditions of use</td>
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<tr>
<td>E</td>
<td>Ends; style, type, orientation, attachment methods, etc.</td>
</tr>
<tr>
<td>D</td>
<td>Delivery testing, quality, packaging, and delivery requirements</td>
</tr>
</tbody>
</table>

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**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? ____________________________

How important is the weight of the hose going to be in this application (check one)?

[ ] Very important [ ] Slightly important [ ] Not an issue
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.

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.

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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:** 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 contact for North America contact Eaton Technical Support 1-888-258-0222 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
- **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 North America contact Eaton Technical Support 1-888-258-0222 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 North America contact Eaton Technical Support 1-888-258-0222 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 North America contact Eaton Technical Support 1-888-258-0222 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.
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.

**Product Warranty**

The Eaton Hydraulics warranty policy is located at www.hydraulics.eaton.com/warranty
# Air and Multipurpose

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High Pressure Air

**H6009 BULLDOG GOLD™**

- **Application:** Air-operated equipment, boring and mining
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 1-, 2- and 3-wire braid
- **Cover:** Pin-picked Carboxylated nitrile
- **Temp:** -40°C to +121°C (-40°F to +250°F)
- **Pressure:** 35-70 bar / 500-1000 psi

**H6008 BULLDOG YELLOW JACK™**

- **Application:** Power drills, boring, mining and air-operated equipment
- **Tube:** Vinyl nitrile (RMA Class A)
- **Reinforcement:** 1-, 2- & 3-wire braid
- **Cover:** Neoprene MSHA approved
- **Temp:** -40°C to +93°C, (-40°F to +200°F)
- **Pressure:** 28-103 bar / 400-1500 psi

**EHA500 High Pressure Air**

- **Application:** High-pressure air
- **Tube:** Oil-resistant nitrile blend
- **Reinforcement:** High-tensile steel wire
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +93°C, (-40°F to +200°F)
- **Pressure:** 41 bar / 600 psi

**EHA502 Heavy Duty Air**

- **Application:** Power drills, boring, mining and air-operated equipment
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 2-fiber braid or fiber ply
- **Cover:** Neoprene or vinyl nitrile
- **Temp:** -40°C to +93°C, (-40°F to +200°F)
- **Pressure:** 13-8 to 28-0 bar / 200-400 psi

**EHA501 Medium Duty Air**

- **Application:** Medium-duty air service
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (13°F to +158°F)
- **Pressure:** 28 bar / 400 psi

Low Working Pressure

**H9949 SHOCK-SAFE™**

- **Application:** Air and water transfer where hose must be non-conductive
- **Tube:** Nitrile (non-conductive)
- **Reinforcement:** 2-fiber braid
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +82°C, (-40°F to +180°F)
- **Pressure:** 19 bar / 275 psi

**H1776 & H1777 PERFECTION™ 300**

- **Application:** Air and water transfer, air tools
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 2-fiber braid
- **Cover:** Vinyl nitrile
- **Temp:** -40°C to +82°C, (-40°F to +180°F)
- **Pressure:** 22-4 bar / 325 psi

**H115 & H116 PERFORMER II™**

- **Application:** Air and water transfer, air-operated tools and pneumatic tools on production line
- **Tube:** Nitrile (RMA Class B)
- **Reinforcement:** 1- & 2-fiber braid
- **Cover:** Vinyl nitrile
- **Temp:** -40°C to +82°C, (-40°F to +180°F)
- **Pressure:** 15-5-20-7 bar / 225-300 psi

**H201 EASY COUPLE™**

- **Application:** Air and water transfer, power for air-operated and pneumatic tools
- **Tube:** Vinyl Nitrile (RMA Class A)
- **Reinforcement:** 1-braid fiber
- **Cover:** Neoprene or vinyl nitrile
- **Temp:** -40°C to +100°C, (13°F to +212°F)
- **Pressure:** 14-21 bar / 200-300 psi

**H265 ULTRAFORCE™**

- **Application:** Air and water transfer, power for air-operated tools and lubricated air
- **Tube:** Modified vinyl
- **Reinforcement:** 2 spiral fiber
- **Cover:** Pin-pricked modified rubber
- **Temp:** -23°C to +65°C, (-10°F to +150°F)
- **Pressure:** 8-5-24 bar / 125-350 psi
### General Air & Water

**H1981 & H1982 MARATHONER™ – Non-Conductive**
- **Application:** Medium oil-resistance, air and water transfer
- **Tube:** Nitrile blend
  - **Reinforcement:** 2- or 4-fiber spiral
  - **Cover:** Pin-pricked nitrile blend
- **Temp:** -40°C to +82°C, (-40°F to +180°F)
- **Pressure:** 13,8-20,7 bar / 200-300 psi

**H1987 Contractors Water**
- **Application:** For transfer of water
- **Tube:** EPDM rubber
- **Reinforcement:** 2-fiber spiral
- **Cover:** Pin-pricked EPDM rubber
- **Temp:** -34°C to +71°C, (-30°F to +160°F)
- **Pressure:** 10,5 bar / 150 psi

### Air and Multipurpose

**EHA503 Light Duty Air**
- **Application:** Light duty air service and pneumatic tools
- **Tube:** Oil-mist resistant SBR blend rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** 25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10,5 bar / 150 psi

**EHA504 Light Duty Air**
- **Application:** Light duty air service and pneumatic tools
- **Tube:** Oil-mist resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** 25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10,5 bar / 150 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

**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

**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)
- **Pressure:** 28 bar / 400 psi

**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
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

**H6009**

**BULLDOG GOLD™**

**Construction:**
- Tube: Nitrile (RMA Class A)
- Reinforcement: 1.00” - 1.25” 1-wire braid
  - 1.50” - 3.00” 2-wire braid
  - 4.00” 3-wire braid
- Cover: Pin-pricked carboxylated nitrile

**Application:**
- Provide power to air-operated construction equipment
- Power air-operated drills, boring, and mining equipment

**Markets:**
- Construction
- Mining
- Oil and gas exploration
- Water drilling
- Ship building

**Type of Couplings:**
- Eaton “U” Series
- TTC
- Union
- 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 on pages O-1 - O-16. 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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**Construction:**
- **Tube:** Vinyl nitrile (RMA Class A)
- **Reinforcement:**
  - 0.50” – 1.25” 1-wire braid
  - 1.50” – 3.00” 2-wire braid
  - 4.00” 3-wire braid
- **Cover:** Pin-pricked neoprene MSHA approved

**Application:**
- Power operated drills, boring, and mining equipment
- Provide power to air-operated equipment

**Markets:**
- Oil and gas exploration
- Metal working
- Construction
- Mining

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

**Type of Couplings:**
- Eaton “U” Series
- Eaton “Z” Series
- Boss
- Ground joint
- Air hammer
- Air king
- Eaton quick disconnect

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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* 150 ft. length available

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Refer to warnings and safety information on pages O-1 – O-18. 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.
**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.

---

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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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**50 ft. length also available and black cover available on a MTO basis**
### H9622 Contractors Air

**Construction:**
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:**
  - 0.50” - 1.25” 1-wire braid
  - 1.50” - 3.00” 2-wire braid
- **Cover:** Pin-pricked neoprene

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

**Application:**
- Power operated drills, boring, and mining equipment
- Provide power to air-operated equipment

**Markets:**
- Oil and gas exploration
- Metal working
- Construction
- Mining

**Type of Couplings:**
- Eaton “U” Series
- Eaton “Z” Series
- Boss
- Ground joint
- Air hammer
- Air king
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Specification Table

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<th>Part No.</th>
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* 150 ft. length available
Air and Multipurpose
Medium Pressure

H6002  BULLDOG™ Air

Construction:
Tube: Nitrile
Reinforcement:
.50” - 1.00” 2-fiber braid
1.25” - 3.00” 2-fiber ply
Cover:
.50” - 1.00” pin-pricked neoprene
1.25” - 3.00” pin-pricked vinyl nitrile

Application:
• Power operated drills, boring and mining equipment
• Provide power to air-operated equipment

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

Markets:
• Metal working
• Construction
• Mining
• Forest industry

Type of Couplings:
• Eaton “U” Series
• Eaton “Z” Series
• Boss
• Ground joint
• Air hammer
• Air king
• Eaton quick disconnect

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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* 150 ft. length available

Refer to warnings and safety information on pages O-1 – O-16.
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

**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

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

**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

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
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* Product also available in BK Black

**Refer to warnings and safety information on pages O-1 – O-16. 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

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<th>Part No.</th>
<th>Hose I.D.</th>
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* Product also available in BK Black

Refer to warnings and safety information on pages O-1 – O-16. 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

**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

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### Part No. Specifications

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* Product sold in bales with maximum three cut lengths in each bale

** Product also available in YW-Yellow

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Refer to warnings and safety information on pages 0-1 – 0-16. 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

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:
• 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

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
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</table>

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

Refer to warnings and safety information on pages O-1 – O-16. 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

**H9949**

**SHOCK-SAFE™**

**Construction:**
- Tube: Nitrile (non-conductive)
- Reinforcement: 2-fiber braid
- Cover: Vinyl nitrile (non-conductive)

**Operating Temperature:**
-40°C to +82°C
(-40°F to +180°F)

**Application:**
- Air and water transfer where hose must be non-conductive

**Markets:**
- Oil and gas exploration
- Steel and metal
- Mining
- In-plant service

**Type of Couplings:**
- Eaton “U” Series
- Eaton “Z” Series
- TTC
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information on pages O-1 – O-16.
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>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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Air and Multipurpose – Low Working Pressure
Air and Multipurpose
Low Working Pressure

**H1776 & H1777**

**PERFECTION™ 300**

**Construction:**
- Tube: Nitrile (RMA Class A)
- Reinforcement: H1777 - 1-fiber braid
  - H1776 - 2-fiber braid
- Cover: Vinyl nitrile

**Operating Temperature:**
-40°C to +82°C
(-40°F to +180°F)

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

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

**Type of Couplings:**
- Eaton “U” Series
- Eaton “Z” Series
- Long shank
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information on pages O-1 – O-16. 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>ft</td>
<td>DN mm</td>
<td>in</td>
<td>mm</td>
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H1776

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<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>ft</td>
<td>DN mm</td>
<td>in</td>
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<td>in</td>
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</table>
**Air and Multipurpose**

Low Working Pressure

**H115 & H116**

**PERFORMER II™**

**Construction:**
- **Tube:** Nitrile (RMA Class B)
- **Reinforcement:**
  - H115 - 2-fiber braid
  - H116 - 1-fiber braid
- **Cover:** Vinyl nitrile

**Operating Temperature:**
-40°C to +82°C
(-40°F to +180°F)

**Application:**
• High oil-resistant
• Air and water transfer
• Provide power to air-operated equipment
• Pneumatic tools on production line

**Markets:**
• Construction
• Forest industry
• Metal working
• Oil and gas exploration
• In-plant service
• Plastic molding
• Ship building

**Type of Couplings:**
• Eaton "U" Series
• Eaton "Z" Series
• TTC
• Boss
• Ground joint
• Eaton quick disconnect

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>
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<th>Length</th>
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* 50 ft. length available
** Maximum three cut lengths on each reel and product packaging will vary +/- 10 %

---

Warning:
- Refer to warnings and safety information on pages O-1 – O-16.
- 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.

**PERFORMER II™ H115**

EATON PERFORMER II™ HOSE H115

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Air and Multipurpose – Low Working Pressure

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B-16 EATON Industrial Hose Master Catalog - Global E-HOIN-SS001-E 2014
Air and Multipurpose
Low Working Pressure

**H201 EASY COUPLE™**

**Construction:**
- Tube: Vinyl Nitrile (RMA Class A)
- Reinforcement: 1-braid fiber
- Cover: (BK) Neoprene (MSHA Approved) (BU, GN, GY, RD, YW) Vinyl nitrile

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

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

**Type of Couplings:**
- Aeroquip® socketless
- Push-on couplings
- Eaton “B” Series
- Eaton quick disconnect

**Operating Temperature:**
- -40°C to +100°C (-40°F to +212°F)

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

<table>
<thead>
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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
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<th>Length</th>
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<td>bar psi</td>
<td>bar psi</td>
<td>kg/m</td>
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<td>6.4 0.25</td>
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<td>21.0 300</td>
<td>84.0 1200</td>
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<td>H20104XX-</td>
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<td>6.4 0.25</td>
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<td>21.0 300</td>
<td>84.0 1200</td>
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<td>84.0 1200</td>
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<td>84.0 1200</td>
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<td>25.4 1.00</td>
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<td>14.0 200</td>
<td>55.0 800</td>
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</table>

* All sizes available in Black, Blue and Red  **Green, Gray and Yellow available

Refer to warnings and safety information on pages O-1 – O-16. 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

H265

**Construction:**
- Tube: Modified vinyl
- Reinforcement: 2-spiral fiber
- Cover: Pin-pricked modified rubber

**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
- Eaton “P” Series
- Eaton “Z” Series
- Barbed inserts
- Quick acting or long shank
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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**Part No.** | **Hose I.D.** (mtr ft) | **Hose O.D.** (mm in) | **Max Operating Pressure** (bar psi) | **Burst Pressure** (bar psi) | **Weight** (kg/m lbs/ft) | **Length** (mtr ft)
---|---|---|---|---|---|---
H26504BU- 600R | 6 6.4 0.25 | 12.7 0.50 | 24.0 350 | 97.0 1400 | 0.13 0.09 | 600
H26506BU- 600R | 10 9.5 0.38 | 16.3 0.64 | 24.0 350 | 97.0 1400 | 0.18 0.12 | 600
H26508BU- 500R | 12 12.7 0.50 | 19.8 0.78 | 20.7 300 | 83.0 1200 | 0.25 0.17 | 500
H26510BU- 500R | 16 15.9 0.62 | 22.2 0.87 | 17.2 250 | 70.0 1000 | 0.30 0.20 | 500
H26512BU- 500R | 19 19.0 0.75 | 26.9 1.06 | 17.2 250 | 70.0 1000 | 0.39 0.26 | 500
H26516BU- 200R | 25 25.4 1.00 | 33.3 1.31 | 13.8 200 | 55.0 800 | 0.52 0.35 | 200
H26520BU- 100 | 31 31.8 1.25 | 42.9 1.69 | 10.5 150 | 41.0 600 | 0.91 0.61 | 100
H26524BU- 100 | 38 38.1 1.50 | 49.2 1.94 | 10.5 150 | 41.0 600 | 1.09 0.73 | 100
H26532BU- 100 | 51 50.8 2.00 | 63.5 2.50 | 8.5 125 | 35.0 500 | 1.56 1.05 | 100

*Additional colors available ** Additional lengths available on select items

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Refer to warnings and safety information on pages O-1 – O-16. 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.
## H275 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
- Eaton “P” Series
- Eaton “Z” Series
- Barbed inserts
- Quick acting or long shank
  - Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Table

<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>
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* Additional colors available ** Additional lengths available on select items

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Refer to warnings and safety information on pages O-1 – O-16. 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

H1812
Industrial Air/Water

Construction:
Tube: EPDM rubber
Reinforcement: 2-fiber braid
Cover: EPDM rubber

Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

Application:
• For transfer of air and water
• Pneumatic tools
• For spraying water-based fertilizers and pesticides

Markets:
• Metal working
• Construction
• Mining
• Oil and gas exploration
• In-plant service
• Agriculture

Type of Couplings:
• Eaton “U” Series
• Eaton “Z” Series
• Barbed inserts
• Eaton quick disconnect

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>
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Air and Multipurpose – Low Working Pressure

Refer to warnings and safety information on pages O-1 – O-16. 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

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

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:
• Boss
• Ground joint
• Air hammer
• Air king
• 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>
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Refer to warnings and safety information on pages O-1 – O-16. 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

EHA504

Light Duty Air

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

Refer to warnings and safety information on pages O-1 – O-16. 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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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
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Product also available in YW–Yellow
Air and Multipurpose
General Air and Water

H1981 & H1982
MARATHONER™ – Non-Conductive

Construction:
Tube: Nitrile blend
Reinforcement: 2- or 4-fiber spiral
Cover: Pin-pricked nitrile blend

Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

Application:
• Medium duty oil-resistant
• Air and water transfer

Markets:
• Construction
• Mining
• Paper industry
• Oil and gas exploration
• In-plant service

Type of Couplings:
• Eaton “U” Series
• Eaton “Z” Series
• TTC
• Boss
• Ground joint
• Air hammer
• Air king
• Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>#</th>
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*Additional packaging available ** Additional colors available

Refer to warnings and safety information on pages 0-1 – 0-16. 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

**H0105**

**BOSFLEX™ A/W**

**Construction:**
Tube: EPDM
Reinforcement: 4-fiber spiral, -20 & -24 2-fiber braid
Cover: EPDM

**Operating Temperature:**
-40°C to +82°C
(-40°F to +180°F)

**Application:**
• Air and water transfer
• Spraying and conveying water based liquid fertilizers and pesticides

**Markets:**
• Construction
• Mining
• Rental industry
• Oil and gas exploration
• In-plant air service
• Agriculture
• Assembly/manufacturers
• Paper/pulp
• Ship building

**Type of Couplings:**
• Eaton “U” Series
• Barbed inserts
• Quick disconnect
• Eaton quick disconnect

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>
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*Product also available in BK-Black
### Construction:
- **Tube:** EPDM
- **Reinforcement:** 2-spiral fiber
- **Cover:** EPDM

### Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

### Application:
- Air and water transfer
- Spraying and conveying water-based liquid fertilizers and pesticides

### Markets:
- Construction
- Mining
- Rental industry
- Oil and gas exploration
- In-plant air service
- Agriculture
- Assembly/manufacturers
- Paper/pulp
- Ship building

### Type of Couplings:
- Eaton “U” Series
- Barbed inserts
- Quick disconnect
- Eaton 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
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### Air and Multipurpose

**General Air and Water**

**H1987 Contractors Water**

#### Construction:
- **Tube:** EPDM rubber
- **Reinforcement:** 2-fiber spiral
- **Cover:** Pin-pricked EPDM rubber

#### Operating Temperature:
- 

#### Application:
- For transfer of water

#### Markets:
- Construction
- Agriculture
- Turf care

#### Type of Couplings:
- Barbed inserts
- Eaton 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

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<th>Burst Pressure</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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

EHA509 & EHA510  Multipurpose - EPDM

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

**Application:**
- For use with air or water
- Dust control

**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.

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

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*Product sold in bales with maximum three cut lengths in each bale.*

Refer to warnings and safety information on pages O-1 – O-16. 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: Abrasion, ozone, and weather resistant synthetic rubber

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

**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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### EHA507 & EHA508 Multipurpose

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

**EHW028**

Heavy Duty MSHA Mine Spray

**Construction:**
- **Tube:** Oil-mist resistant nitrile blend
- **Reinforcement:** High-tensile steel wire
- **Cover:** Pin-pricked neoprene blend

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

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

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

**Type of Couplings:**
- Male NPT
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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</table>

Refer to warnings and safety information on pages O-1 – O-16.
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.
### H1571 Mineforce

**Construction:**
- **Tube:** Modified vinyl
- **Reinforcement:** 4-fiber spiral
- **Cover:** PVC/nitrile blend

**Operating Temperature:**
-28°C to +66°C (-20°F to +150°F)

**Application:**
- For transfer of air and water
- For high pressure air tools

**Markets:**
- Construction
- Mining
- Food processing

**Type of Couplings:**
- Eaton "U" Series
- Eaton "Z" Series
- Long shank
- Eaton quick disconnect

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

Refer to warnings and safety information on pages O-1 – O-16. 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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</table>
Air and Multipurpose
Specialty

EHA511

Air and Dust Suction

Construction:
Tube: Synthetic rubber
Reinforcement: Synthetic textile and steel helical wire
Cover: Corrugated, abrasion, ozone, and weather resistant synthetic rubber

Operating Temperature:
-20°C to +70°C
(-4°F to +158°F)

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

Markets:
• Construction
• In-plant service

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

Refer to warnings and safety information on pages O-1 – O-16.
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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<td>mm</td>
<td>in</td>
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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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Cement, Plaster and Grout

Cement and Concrete
EHK007 MAURAUDER™ Heavy Duty Concrete Pumping . . . . C-4
EHK007 Concrete Pumping Couplings . . . . . . . . . . . . . . C-5
EHK008 Concrete Vibration . . . . . . . . . . . . . . . . . . . . . . C-6
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EHK005 Plaster and Grout Spraying . . . . . . . . . . . . . . . . C-8

Dry Bulk
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EHK003 Corrugated Dry Bulk Suction & Discharge . . . . . . . C-10
EHK002 Dry Bulk Suction & Discharge . . . . . . . . . . . . . . C-11
EHK010 Dry Bulk Suction & Discharge . . . . . . . . . . . . . . C-12
EHK016 Dry Bulk Discharge . . . . . . . . . . . . . . . . . . . . C-13
EHK001 Dry Bulk Flat Discharge . . . . . . . . . . . . . . . . C-14
Cement and Concrete

**EHK007 MAURAUDER™ Heavy Duty Concrete Pumping**

- **Application:** High-pressure concrete pumping
- **Tube:** Abrasion resistant synthetic rubber
- **Reinforcement:** High-tensile steel cords
- **Cover:** Pin-pricked synthetic rubber
- **Temp:** -40°C to +70°C, (-40°F to +158°F)
- **Pressure:** 85 bar / 1230 psi

**EHK007 Concrete Pumping Couplings**

**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 MAURAUDER™ HD 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:** 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

Dry Bulk

**EHK004 Channeled Dry Bulk Suction & Discharge**

- **Application:** Suction and discharge of dry bulk materials, sand, gravel and dry cement
- **Tube:** Abrasion resistant 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:** Suction and discharge of dry bulk materials, sand, gravel and dry cement
- **Tube:** Abrasion resistant 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:** Suction and discharge of dry bulk materials, sand, gravel and dry cement
- **Tube:** Abrasion resistant 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

**EHK010 Dry Bulk Suction & Discharge**

- **Application:** Suction and discharge of dry bulk materials, sand, gravel and dry cement
- **Tube:** Abrasion resistant 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:** Suction and discharge of dry bulk materials, sand, gravel and dry cement
- **Tube:** Abrasion resistant 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:** Abrasion resistant synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +70°C, (-40°F to +158°F)
- **Pressure:** 5 bar / 75 psi
Cement, Plaster and Grout
Introduction and Safety Information

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 as 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.

Job Related Construction Service
- Eaton makes a variety of hose styles for material handling applications. Each product is manufactured utilizing the components and construction which make it best suited for the job to be performed.

Cement, Plaster and Grout 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 blowoffs, 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.
Construction:
Tube: Abrasion resistant synthetic rubber
Reinforcement: High-tensile steel cords
Cover: Pin-pricked synthetic rubber

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³
Refer to warnings and safety information on pages O-1 – O-16.

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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**EHK007 Coupling**

**Concrete Pumping Couplings**

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<th>3 in</th>
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<th>5 in</th>
<th>5-1/2 in</th>
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</table>
Cement, Plaster and Grout
Cement and Concrete

**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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**Table: EHKO08**

<table>
<thead>
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<th>#</th>
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<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<td>mm</td>
<td>mm</td>
<td>bar psi</td>
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</tr>
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</table>

Refer to warnings and safety information on pages O-1 – O-16. 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.
Cement, Plaster and Grout
Cement and Concrete

**EHK006**

**MARAUDER™ Heavy Duty Plaster & 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

<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>
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* Abrasion loss value acc. DIN53516 ≤60mm³

Refer to warnings and safety information on pages O-1 – O-16. 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 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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**EHK005**

**Plaster and Grout Spraying**

<table>
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<th>Part No.</th>
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<th>Hose O.D.</th>
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<th>Weight (kg/m)</th>
<th>Weight (lbs/ft)</th>
<th>Length (mtr)</th>
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* Product available in GY-gray and YW-yellow.
* Abrasion loss value acc. DIN53516 ≤60mm³

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Refer to warnings and safety information on pages O-1 – O-16. 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.
Cement, Plaster and Grout

Dry Bulk

**EHK004**

Channeled Dry Bulk Suction & Discharge

**Construction:**
- **Tube:** Abrasion resistant 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

Refer to warnings and safety information on pages O-1 – O-16. 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>
<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>DN mm</td>
<td>in</td>
<td>bar psi</td>
<td>bar psi</td>
<td>mm in</td>
<td>kPa in/Hg kg/m lbs/ft mtr ft</td>
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* Abrasion loss value acc. DIN53516 ≤60mm³
## Construction:
- **Tube:** Abrasion resistant 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

### Corrugated Dry Bulk Suction & Discharge

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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³

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Refer to warnings and safety information on pages O-1 – O-16. 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.
Cement, Plaster and Grout

Dry Bulk

**Construction:**
- **Tube:** Abrasion resistant synthetic 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 dry bulk materials, sand, gravel and 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

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**EHK002**

**Dry Bulk Suction & Discharge**

Refer to warnings and safety information on pages O-1 – O-16. 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>Max Oper Pressure</th>
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</table>

* Abrasion loss value acc. DIN53516 ≤60mm³
Cement, Plaster and Grout
Dry Bulk

Refer to warnings and safety information on pages O-1 – O-16.
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.

**EHK010**

**Dry Bulk Suction & Discharge**

**Construction:**
- **Tube:** Abrasion resistant synthetic 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 dry bulk materials, sand, gravel and 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 Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³
Cement, Plaster and Grout
Dry Bulk

**EHK016**

Dry Bulk Discharge

**Construction:**
- Tube: Abrasion resistant synthetic rubber
- Reinforcement: High-tensile synthetic textile with 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 dry bulk materials, sand, gravel and 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

---

**Part No.**
- EHK016-16-
- EHK016-20-
- EHK016-24-
- EHK016-28-
- EHK016-32-
- EHK016-40-
- EHK016-48-
- EHK016-56-
- EHK016-64-
- EHK016-80-
- EHK016-96-
- EHK016-128-
- EHK016-160-

**Hose I.D.**
- MXX 100

**Hose O.D.**
- Pin-pricked, abrasion, ozone, and weather resistant synthetic rubber

**Max Oper Pressure**
- 10.5

**Burst Pressure**
- 150

**Weight**
- 0.62

**Length**
- 37.0

---

* Abrasion loss value acc. DIN53516 ≤60mm³

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Refer to warnings and safety information on pages O-1 – O-16. 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 synthetic rubber
Reinforcement: High-tensile synthetic textile
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 dry cement and abrasive materials

Markets:
• Construction
• Cement
• Swimming pool

Type of Couplings:
• Cam and groove
• Combination nipple

<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
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* Abrasion loss value acc. DIN53516 ≤60mm³
## Chemical

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Suction & Discharge

**H0060 ARMORCAT™ Corrugated Petrochemical**

Application: Transfer of acids, chemicals, solvents, and petroleum products; Loading and unloading, pumping, suction, or gravity flow discharge
Tube: UHMW-PE FDA-approved material Reinforcement: 2-wire braid, dual stainless steel static wire Cover: Corrugated EPDM
Temp: -40°C to +121°C, (-40°F to +250°F) *Intermittent
Pressure: 12.1-17.2 bar / 175-250 psi

**H0554 ARMORCAT™ Petrochemical**

Application: Transfer of acids, chemicals, solvents, and petroleum products; Loading and unloading, pumping, suction, or gravity flow discharge
Tube: UHMW-PE FDA-approved material Reinforcement: 2-wire braid, dual stainless steel static wire, and helical wire Cover: EPDM
Temp: -40°C to +121°C, (-40°F to +250°F) *Intermittent
Pressure: 35 bar / 500 psi

**H0599 CHEMCAT™ Corrugated Petrochemical**

Application: Transfer of acids, chemicals, solvents, and petroleum products; Loading and unloading, pumping, suction, or gravity flow discharge
Tube: UHMW-PE FDA-approved material Reinforcement: 2-ply fiber with dual helical wire Cover: Corrugated EPDM
Temp: -40°C to +121°C, (-40°F to +250°F) *Intermittent
Pressure: 12.1-20.7 bar / 175-300 psi

**H0523 CHEMCAT™ Petrochemical**

Application: Transfer of acids, chemicals, solvents, and petroleum products, and food transfer
Tube: UHMW-PE FDA-approved material Reinforcement: 2-ply fiber and dual helical wires Cover: EPDM
Temp: -40°C to +121°C, (-40°F to +250°F) *Intermittent
Pressure: 12.1-20.7 bar / 175-300 psi

**EHC006 Heavy Duty UHMW-PE S & D**

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

**EHC019 Hard Wall Heavy Duty UHMW-PE S & D**

Application: Suction and discharge of corrosive chemicals and solvents
Tube: UHMW-PE 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: 17.2 bar / 250 psi

**EHC005 Corrugated UHMW-PE S & D**

Application: Transfer of acids, chemicals, solvents, and petroleum products
Tube: UHMW-PE FDA-approved material Reinforcement: High-tensile synthetic textile, steel helical wire and anti-static copper wire Cover: Corrugated EPDM
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 10.5 bar / 150 psi

**EHC004 UHMW-PE S & D**

Application: Suction and discharge of chemicals, and solvents
Tube: UHMW-PE FDA-approved material 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

**H0661 COUGAR™ Corrugated**

Application: In-plant transfer of chemicals, alcohols, acids and petroleum
Tube: CPE Reinforcement: 2-ply fiber with helical wire Cover: EPDM
Temp: 43°C to +135°C, (-45°F to +275°F)
Pressure: 12.1 bar / 175 psi

**H3859 PANTHER™ Chemical**

Application: Transfer of acids, chemicals, solvents and petroleum products
Tube: XLPE Reinforcement: 2-ply fiber with helical wire Cover: EPDM
Temp: 43°C to +80°C, (-45°F to +176°F)
Pressure: 12,1-17.2 bar / 175-250 psi

**EHC003 Heavy Duty Chemical S & D**

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

**H0615 Corrugated Green CROSS-LINKED™**

Application: Transfer of acids, chemicals, solvents, and petroleum products; loading and unloading, pumping, suction, or gravity flow discharge
Tube: XLPE Reinforcement: 2-ply fiber, with helical wire Cover: EPDM
Temp: 43°C to +66°C, (-45°F to +150°F)
Pressure: 12,1-17.2 bar / 175-250 psi

**H0378 Green CROSS-LINKED™**

Application: Transfer of acids, chemicals, solvents, and petroleum products; loading and unloading, pumping, suction, or gravity flow discharge
Tube: XLPE Reinforcement: 2-ply fiber, with helical wire Cover: EPDM
Temp: 43°C to +66°C, (-45°F to +150°F)
Pressure: 12,1-17.2 bar / 175-250 psi

**EHC002 Flat Corrugated Chemical S & D**

Application: Transfer of acids, chemicals, solvents and petroleum products
Tube: PE blend Reinforcement: High-tensile synthetic textile, dual steel helical wire and anti-static copper wire Cover: Flat corrugated EPDM
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 10.5 bar / 150 psi

**EHC001 Chemical S & D**

Application: Transfer of acids, chemicals, solvents and petroleum products
Tube: PE blend Reinforcement: High-tensile synthetic textile, dual steel helical wire and anti-static copper wire Cover: 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 S & D**

Application: Suction and discharge of chemicals, and solvents
Tube: EPDM rubber Reinforcement: High-tensile synthetic textile, dual steel helical wires and anti-static copper wire Cover: EPDM rubber
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 16 bar / 230 psi
H0345 TIGER™ Chemical S & D

Application: Transfer of acids, chemicals, solvents, and petroleum products; loading and unloading, pumping, suction, or gravity flow discharge

Tube: EPDM

Reinforcement: 2-ply fiber with helical wire

Cover: EPDM rubber

Temp: -43°C to +82°C, (-45°F to +176°F)

Pressure: 10.5 bar / 150 psi

---

EHC009 Corrugated EPDM S & D

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: Corrugated EPDM rubber

Temp: -40°C to +80°C, (-40°F to +176°F)

Pressure: 10.5 bar / 150 psi

---

EHC008 EPDM S & D

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 S & D

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

---

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

---

H9699 ALLEYCAT™ Hot Liquid

Application: For inplant transfer of cleaning solutions

Tube: EPDM

Reinforcement: 2-wire braid with anti-static wire

Cover: EPDM rubber

Temp: -40°C to +149°C, (-40°F to +300°F)

Pressure: 41 bar / 600 psi

---

EHC010 Heavy Duty EPDM Discharge

Application: Discharge of chemicals, and solvents

Tube: EPDM rubber

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

---

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

EHT453, EHT454, EHT455 Agricultural Spray

Application: Spraying pesticides and fertilizers

Tube: PVC

Reinforcement: High-tensile synthetic textile

Cover: PVC rubber

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 rubber

Temp: -10°C to +60°C, (+14°F to +140°F)

Pressure: 20-40 bar / 290-580 psi

---

H1941 & H1942 NYALL™

Application: Spray pesticides, fertilizers and paint

Tube: Nylon

Reinforcement: 1- or 2-Fiber braid

Cover: Neoprene or Vinyl Nitrile

Temp: -34°C to +71°C, (+30°F to +160°F)

Pressure: 35-52 bar / 500-750 psi

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H1561 CHEMFORCE™

Application: Spray pesticides, fertilizers and paint

Tube: PVC/Polyurethane blend

Reinforcement: 4-spiral fiber

Cover: PVC rubber

Temp: -9°C to +71°C, (+15°F to +160°F)

Pressure: 41 bar / 600 psi

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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.

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**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 removes the guess work 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.

**Variety and Selection**

- Eaton offers a variety of choices to meet all of your chemical needs. Whether you need a color coded system, flexibility, or wide chemical tolerances, Eaton can meet your needs.
Chemical Service Hose Maintenance, Testing and Inspection

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 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
Construction:
Tube: UHMW–PE FDA-approved material
Reinforcement: 2-wire braid, dual stainless steel anti-static wire
Cover: Corrugated EPDM

Operating Temperature:
-40°C to +121°C
(-40°F to +250°F)
WARNING: Intermittent

Application:
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

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.

Chemical – Suction & Discharge

ARMORCAT™ Corrugated Petrochemical

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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>
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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.
**H0554 ARMORCAT™ Petrochemical**

**Construction:**
- **Tube:** UHMW-PE FDA-approved material
- **Reinforcement:** 2-wire braid, dual stainless steel anti-static wire, 3.00” and 4.00” helical wire
- **Cover:** EPDM

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

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

**Operating Temperature:**
-40°C to +121°C (-40°F to +250°F)

**WARNING:** Intermittent

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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.

---

**Chemical Suction & Discharge**

**H0554**

**Construction:**
- **Tube:** UHMW-PE FDA-approved material
- **Reinforcement:** 2-wire braid, dual stainless steel anti-static wire, 3.00” and 4.00” helical wire
- **Cover:** EPDM

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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

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**Application:**
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- Loading and unloading, pumping, suction, or gravity flow discharge

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

**Type of Couplings:**
- Cam and groove
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- Male NPT

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**Type of Couplings:**
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**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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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**Markets:**
- Chemical petroleum industry
- In-plant transfers
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- Oil and gas exploration

**Type of Couplings:**
- Cam and groove
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- Oil and gas exploration

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**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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

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

**Type of Couplings:**
- Cam and groove
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- Male NPT

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**Chemical Suction & Discharge**

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- 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

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**Chemical Suction & Discharge**

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**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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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**Chemical Suction & Discharge**

**H0554**

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- **Tube:** UHMW-PE FDA-approved material
- **Reinforcement:** 2-wire braid, dual stainless steel anti-static wire, 3.00” and 4.00” helical wire
- **Cover:** EPDM

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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.
Chemical Suction & Discharge

H0599 CHEMCAT™ Corrugated Petrochemical

Construction:
Tube: UHMW–PE
FDA-approved material
Reinforcement: 2-ply fiber with dual helical wire
Cover: Corrugated EPDM

Operating Temperature:
-40°C to +121°C
(-40°F to +250°F)
WARNING: Intermittent

Application:
• For transfer of acids, chemicals, solvents, and petroleum products
• Loading and unloading, pumping, suction, or gravity flow discharge

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>
<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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Refer to warnings and safety information on pages O-1 – O-16. 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.
**Construction:**
- **Tube:** UHMW-PE FDA-approved material
- **Reinforcement:** 2-ply fiber and dual helical wires
- **Cover:** EPDM

**Operating Temperature:**
-40°C to +121°C
(-40°F to +250°F)

**WARNING:** Intermittent

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

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

**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

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* Additional lengths available on select items
** XX notes color; GN for green, PR for purple

Refer to warnings and safety information on pages D-1 – D-16.
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 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

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.

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

<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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⚠ 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.

Refer to warnings and safety information on pages O-1 – O-16. 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**

**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.**
- EHC019-48-
- EHC019-64-

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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

#### 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.

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<th>Part No.</th>
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*Product available in additional colors on a MTO basis

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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.**

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Refer to warnings and safety information on pages O-1 – O-16.

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.
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

**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.

<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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*Product also available in BK-Black and BU-Blue

* 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

**H0661 COUGAR™ Corrugated**

**Construction:**
- Tube: CPE
- Reinforcement: 2-ply fiber with helical wire
- Cover: EPDM

**Operating Temperature:**
-43°C to +135°C
(-45°F to +275°F)

**Application:**
- For in-plant transfer of chemicals, alcohols, acids and petroleum products

**Markets:**
- In-plant transfers
- Tank truck
- Paper/pulp industry

**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**

| Part No. | mtr | ft | DN | mm | in | Hose I.D. | mm | in | Hose O.D. | mm | in | bar | psi | bar | psi | mm | in | kPa | in/Hg | kg/m | lbs/ft | mtr | ft |
|----------|-----|----|----|-----|----|----------|-----|----|----------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| H066132- | 150 | 51 | 50,8 | 2.00 | 67,0 | 2.64 | 12,1 | 175 | 48 | 700 | 152,4 | 6.00 | 94,8 | 28 | 1,73 | 1.16 | 150 |
| H066148- | 150 | 80 | 76,2 | 3.00 | 92,2 | 3.63 | 12,1 | 175 | 48 | 700 | 229,0 | 9.00 | 94,8 | 28 | 2,50 | 1.68 | 150 |

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.
H8359 PANTHER™ Chemical

**Construction:**
- Tube: XLPE
- Reinforcement: 2-ply fiber with helical wire
- Cover: EPDM

**Operating Temperature:**
-43°C to +66°C
(-45°F to +150°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.

### 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>
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**Notes:**
- 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:** 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.

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**Eaton Chemical – Suction & Discharge**

**Heavy Duty Chemical Suction & Discharge**

**TS EN12115 XLPE TYPE SD-M**

**Chemical Suction & Discharge**

Refer to warnings and safety information on pages O-1 – O-16. 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

H0615 Corrugated Green CROSS-LINKED™

Construction:
- Tube: XLPE
- Reinforcement: 2-ply fiber with helical wire
- Cover: Corrugated EPDM

Operating Temperature:
-43°C to +66°C
(−45°F to +150°F)

Application:
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

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, aluminum, 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

<p>| | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
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<td>1000</td>
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</table>

Refer to warnings and safety information on pages O-1 – O-16. 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**

**H0378**

**Green CROSS-LINKED™**

**Construction:**
- Tube: XLPE
- Reinforcement: 2-ply fiber, with helical wire
- Cover: EPDM

**Operating Temperature:**
-43°C to +66°C  
(-45°F to +150°F)

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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>
<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>mtr</td>
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<td>in</td>
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<td>175</td>
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**Note:** 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

### 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. DN 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>
<th>DN</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>mtr</th>
<th>ft</th>
<th>DN</th>
<th>mm</th>
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<th>psi</th>
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<th>in/Hg</th>
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<td>0.75</td>
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</tbody>
</table>

*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.
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.

**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>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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<tbody>
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</tbody>
</table>

*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 specification. 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.

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

<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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</tbody>
</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 specifications. Please consult Eaton catalog or Technical Support for proper application.
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.

Refer to warnings and safety information on pages O-1 – O-16. 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.
### H0345

**TIGER™ Chemical Suction & Discharge**

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** 2-ply fiber with helical wire
- **Cover:** EPDM

**Operating Temperature:**
- -43°C to +82°C
  (-45°F to +180°F)

**Application:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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 on pages O-1 – O-16. 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

<table>
<thead>
<tr>
<th>#</th>
<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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*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 rubber
- **Reinforcement:** High-tensile synthetic textile, steel helical wire and anti-static copper wire
- **Cover:** Corrugated 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.

<table>
<thead>
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<th>Part No.</th>
<th>Hose I.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 specification. Please consult Eaton catalog or Technical Support for proper application.
**EHC008**

**EPDM Suction & Discharge**

**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.

<table>
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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**

**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.

**EHC013**

**CSM Suction & Discharge**

---

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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 Discharge**

**EHC017 Heavy Duty UHMW-PE Discharge**

**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.

**Part No. Hose I.D. Hose O.D.**

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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>Weight</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.
### Construction:
**Tube:** UHMW-PE  
**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

### 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.

### Chemical Discharge

#### UHMW-PE Discharge

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<th>Hose O.D.</th>
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<td>10,5 150</td>
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<td>40-61 100</td>
</tr>
</tbody>
</table>

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

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⚠️ Refer to warnings and safety information on pages D-1 – O-16.

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.
**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

**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.

### Performance Specification

**Part No.**  | **Hose I.D.** | **Hose O.D.** | **Max Operating Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Weight** | **Length**  
--- | --- | --- | --- | --- | --- | --- | ---  
EHC015-12BK- MXX | 19 | 19,0 | 0.75 | 31,0 | 1.22 | 16,0 | 230 | 64,0 | 920 | 187 | 7.36 | 0.60 | 0.40 | 40-61 | 100  
EHC015-16BK- MXX | 25 | 25,4 | 1.00 | 37,0 | 1.46 | 16,0 | 230 | 64,0 | 920 | 225 | 8.86 | 0.71 | 0.48 | 40-61 | 100  
EHC015-20BK- MXX | 31 | 31,8 | 1.25 | 44,0 | 1.73 | 16,0 | 230 | 64,0 | 920 | 262 | 10.31 | 0.93 | 0.63 | 40-61 | 100  
EHC015-24BK- MXX | 38 | 38,1 | 1.50 | 51,0 | 2.01 | 16,0 | 230 | 64,0 | 920 | 338 | 13.31 | 1.19 | 0.80 | 40-61 | 100  
EHC015-32BK- MXX | 51 | 50,8 | 2.00 | 67,0 | 2.64 | 16,0 | 230 | 64,0 | 920 | 410 | 16.14 | 1.91 | 1.28 | 40-61 | 100  
EHC015-40BK- MXX | 60 | 63,5 | 2.50 | 79,0 | 3.11 | 16,0 | 230 | 64,0 | 920 | 450 | 17.72 | 2.22 | 1.49 | 40-61 | 100  
EHC015-48BK- MXX | 80 | 76,2 | 3.00 | 92,0 | 3.62 | 16,0 | 230 | 64,0 | 920 | 525 | 20.67 | 2.65 | 1.78 | 40-61 | 100  
EHC015-64BK- MXX | 100 | 101,6 | 4.00 | 118,0 | 4.65 | 16,0 | 230 | 64,0 | 920 | 675 | 26.57 | 3.65 | 2.45 | 40-61 | 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.
**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 Chemical Discharge

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

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<th>#</th>
<th>Part No.</th>
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<th>ft</th>
<th>DN</th>
<th>mm</th>
<th>in</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>
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<td>#</td>
<td></td>
<td>mtr</td>
<td>ft</td>
<td>DN</td>
<td>mm</td>
<td>in</td>
<td>mtr</td>
<td>ft</td>
<td>DN</td>
<td>mm</td>
<td>in</td>
<td>bar</td>
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<td>10.5</td>
<td>150</td>
<td>41.0</td>
<td>600</td>
<td>2.20</td>
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<td>150</td>
<td>41.0</td>
<td>600</td>
<td>3.61</td>
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</table>

*Product also available in BK-Black

**Chemical Discharge**

Refer to warnings and safety information on pages D-1 – O-16. 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.
### H9699

**ALLEYCAT™ Hot Liquid**

#### Construction:
- **Tube:** EPDM
- **Reinforcement:** 2-wire braid with anti-static wire
- **Cover:** EPDM

#### Operating Temperature:
-40°C to +149°C
(-40°F to +300°F)

#### Application:
- For in-plant transfer of liquors and cleaning solutions

#### Markets:
- In-plant transfers
- Tank truck
- Paper/pulp industry

#### 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.

### Chemical – Discharge

Refer to warnings and safety information on pages O-1 – O-16.

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.

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

<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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</thead>
<tbody>
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<td></td>
<td>mtr</td>
<td>ft</td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>mm</td>
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<td>55,6</td>
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<td>H969932-</td>
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<td>51</td>
<td>50,8</td>
<td>2.00</td>
<td>68,3</td>
<td>2.69</td>
<td>41,0</td>
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Chemical Discharge

EHC010

Heavy Duty EPDM Discharge
TS EN12115 EPDM Type D-M

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.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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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.

Refer to warnings and safety information on pages D-1 – D-18. 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 Discharge**

**H0346**

**LEOPARD™ Chemical Discharge**

**Construction:**
- **Tube:** EPDM
- **Reinforcement:** 2-ply fiber
- **Cover:** EPDM

**Applicatin:**
- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

**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:**
-43°C to +82°C (-45°F to +180°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>
<th>Weight</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>in</td>
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<td>bar psi</td>
<td>mm in</td>
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<td>lbs/ft</td>
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<td>762.0 30.00</td>
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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 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.

#### Chemical – Discharge

<table>
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<th>Part No.</th>
<th>Hose I.D.</th>
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<td>bar psi</td>
<td>kg/m</td>
<td>lbs/ft</td>
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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 on pages O-1 – O-16. 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: 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.

---

**EHC012 CSM Discharge**

<table>
<thead>
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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<td>ft</td>
<td>DN</td>
<td>mm</td>
<td>in</td>
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</tbody>
</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.
**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

---

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.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>
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<td>mm</td>
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<td>mm</td>
<td>in</td>
<td>bar</td>
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<td>50,0</td>
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**EHT454**

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<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
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<td>M150</td>
<td>mm</td>
<td>in</td>
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<td>in</td>
<td>bar</td>
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<td>0.71</td>
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**EHT455**

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<th>Length</th>
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<tbody>
<tr>
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<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>bar</td>
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<td>EHT455-05XX-</td>
<td>8</td>
<td>7,9</td>
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<td>15,0</td>
<td>0.59</td>
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<tr>
<td>EHT455-06XX-</td>
<td>10</td>
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<td>0.38</td>
<td>18,0</td>
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<td>EHT455-08XX-</td>
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<td>0.73</td>
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</tbody>
</table>

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

---

Refer to warnings and safety information on pages D-1 – O-16. 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.
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

---

<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>
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<td>mm in</td>
<td>mm in bar psi</td>
<td>kg/m</td>
<td>mtr ft</td>
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<td>30,150</td>
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<tr>
<td></td>
<td>150</td>
<td>10,9,5 0.38</td>
<td>15,0 0.59 20,0</td>
<td>0.38</td>
<td>30,150</td>
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<td></td>
<td>150</td>
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<td>35,0 1.38 40,0</td>
<td>1.00</td>
<td>20,50</td>
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</tbody>
</table>

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

⚠ 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.
### NYALL™ Hose

**H1941 & H1942**

**Construction:**
- **Tube:** Nylon
- **Reinforcement:**
  - H1941: 1-fiber braid
  - H1942: 2-fiber braid
- **Cover:** (BK) Neoprene, (RD) Vinyl Nitrile and RMA Class B oil resistant

**Operating Temperature:**
-34°C to +71°C
(-30°F to +160°F)

**Application:**
- Spraying pesticides and fertilizers
- Paint spray

**Markets:**
- Agriculture

**Type of Couplings:**
- Barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

#### Part No.

<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>
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<tbody>
<tr>
<td></td>
<td></td>
<td>mtr</td>
<td>ft</td>
<td>DN mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
</tr>
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<td>H1941</td>
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<td>500R</td>
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<td>35,0</td>
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<td>6,4</td>
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**H1942**

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<th>Weight</th>
<th>Length</th>
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<tr>
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<td></td>
<td>mtr</td>
<td>ft</td>
<td>DN mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
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<td>H1942</td>
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<td>22,2</td>
<td>0.88</td>
<td>52,0</td>
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<td>H194212RD-</td>
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<td>52,0</td>
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<td>1.00</td>
<td>38,1</td>
<td>1.50</td>
<td>35,0</td>
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</tbody>
</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 specifications. Please consult Eaton catalog or Technical Support for proper application.

Refer to warnings and safety information on pages O-1 – O-16. 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 Speciality

H1561 CHEMFORCE™

Construction:
Tube: PVC / Polyurethane blend
Reinforcement: 4-spiral fiber
Cover: PVC

Operating Temperature:
-9°C to +71°C (+15°F to +160°F)

Application:
- Spraying pesticides and fertilizers
- Paint spray

Markets:
- Agriculture

Type of Couplings:
- 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>
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<th>Burst Pressure</th>
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<td>psi</td>
<td>bar</td>
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<tr>
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<td></td>
<td></td>
<td>in</td>
<td></td>
<td></td>
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<td>1.14</td>
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*Additional pressures and colors available on a MTO basis

⚠ 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.
Eaton Industrial Hose Reminder
Selection of Hose Ends

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 for North America contact Eaton Technical Support 1-888-258-0222, for global support contact your local Eaton technical representative.

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

Notes

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________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________
Food and Beverage

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**Food and Beverage**

**Food Suction & Discharge**

**H0350 LION™ Food Transfer**
- **Application:** Suction and discharge of non-dairy food products
- **Tube:** Vinyl nitrile  **Reinforcement:** 2-ply fiber helical wire  **Cover:** Vinyl nitrile
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 17.5 bar / 250 psi

**H0384 Grey Food Transfer**
- **Application:** Suction and discharge of bulk abrasive material for food industry
- **Tube:** Vinyl nitrile  **Reinforcement:** 2-ply fiber helical wire  **Cover:** Vinyl nitrile
- **Temp:** -40°C to +80°C, (-40°F to +176°F)
- **Pressure:** 10.5 bar / 150 psi

**EHF002 Liquid Food Suction & Discharge**
- **Application:** Suction and discharge of milk, vegetable oil and beverages
- **Tube:** Vegetable oil-resistant NBR rubber  **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 +80°C, (-40°F to +176°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 rubber  **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 rubber  **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:** Synthetic 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

**EHB500 & EHB501 Beer/Wine Light Duty S & D**
- **Application:** S & D 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: EPDM rubber
Temp: -30°C to +70°C, (-22°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 +46°C, (-15°F to +115°F)
Pressure: 5.0-17.2 bar / 75-250 psi

H160 CLEARFORCE™ – NR

Application: Food and beverage dispensing
Tube: Clear PVC
Temp: -15°C to +66°C, (-10°F to +150°F)
Pressure: 1.3-4.5 bar / 20-65 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 +80°C, (-40°F to +176°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

EHF015 Flat 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: Flat corrugated synthetic rubber
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 10.5 bar / 150 psi

EHF013 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: Synthetic rubber
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 10.5 bar / 150 psi

EHF012 Bulk Discharge

Application: Discharge of bulk abrasive material for food industry
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: Synthetic rubber
Temp: -40°C to +80°C, (-40°F to +176°F)
Pressure: 10.5 bar / 150 psi

H0413 Dry Bulk Discharge

Application: Discharge of bulk abrasive material for food industry
Tube: Natural rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: Synthetic rubber
Temp: -23°C to +71°C, (-10°F to +160°F)
Pressure: 3.5 bar / 50 psi

EHF022 Flat Light Duty Bulk Discharge

Application: Discharge of bulk abrasive material for food industry
Tube: Synthetic rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: Synthetic rubber
Temp: -40°C to +70°C, (-40°F to +158°F)
Pressure: 5 bar / 75 psi

Cleaning Service

H1066 Creamery/Packing Washdown

Application: Washdown food processing facilities & equipment, not for milk
Tube: Nitrile
Reinforcement: 2-braid fiber
Cover: Pin-pricked vinyl nitrile
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 13.8 bar / 200 psi

H9673 WASHDOWN™ 1250

Application: Washdown of food processing facilities & equipment
Tube: Nitrile
Reinforcement: 1- and 2-braid fiber
Cover: Vinyl nitrile
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 86 bar / 1250 psi

H9610 WASHDOWN™ 1000

Application: Washdown of food processing facilities & equipment
Tube: Nitrile
Reinforcement: 1-braid fiber
Cover: Vinyl nitrile
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 70 bar / 1000 psi

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
Pressure: 30 bar / 450 psi

H1531 SUPRAFORCE™

Application: Cleaning in food processing facilities
Tube: Rubber modified thermoplastic
Reinforcement: 2-spiral fiber
Cover: Rubber modified thermoplastic
Temp: -12°C to +82°C, (-10°F to +180°F)
Pressure: 20.7-28.0 bar / 300-400 psi
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.

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**Food and Beverage**

**Introduction and Safety Information**

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**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
Food Suction & Discharge

H0350 LION™ Food Transfer

Construction:
- Tube: Vinyl nitrile
  - FDA approved material
- Reinforcement: 2-ply fiber
  - with helical wire
- Cover: Vinyl nitrile

Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

Application:
- For suction and discharge of non-dairy food products

Markets:
- Food processing
- Tank truck
- Rail car

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>Hose O.D.</th>
<th>Max Oper Pressure</th>
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Food and Beverage
Food Suction & Discharge

H0384
Grey Food Transfer

Construction:
Tube: Vinyl nitrile
FDA approved material
Reinforcement: 2-ply fiber
with helical wire
Cover: Vinyl nitrile

Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

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

Markets:
• Food processing
• Tank truck
• Plastic industry

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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## 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

**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.

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

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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* Additional colors available on BK-Black, BU-Blue, or RD-Red

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Refer to warnings and safety information on pages O-1 – O-16.

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**

---

**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

**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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### Part No. | Hose I.D. | Hose O.D. | Max Oper Pressure | Burst Pressure | Minimum Bend Radius | Vacuum | Weight | Length
---|---|---|---|---|---|---|---|---
EHF018-12BU- MXX 100 | 19 | 19,0 | 0.75 | 29,0 | 60 | 1.14 | 7,0 | 100 | 20,7 | 300 | 94,8 | 28 | 0.62 | 0.42 | 40-61 | 100
EHF018-16BU- MXX 100 | 25 | 25,4 | 1.00 | 36,0 | 85 | 1.42 | 7,0 | 100 | 20,7 | 300 | 94,8 | 28 | 0.85 | 0.57 | 40-61 | 100
EHF018-20BU- MXX 100 | 31 | 31,8 | 1.25 | 43,0 | 130 | 1.69 | 7,0 | 100 | 20,7 | 300 | 105 | 4.13 | 94,8 | 28 | 1.06 | 0.71 | 40-61 | 100
EHF018-24BU- MXX 100 | 38 | 38,1 | 1.50 | 49,0 | 165 | 1.93 | 7,0 | 100 | 20,7 | 300 | 125 | 4.92 | 94,8 | 28 | 1.36 | 0.91 | 40-61 | 100
EHF018-28BU- MXX 100 | 45 | 44,5 | 1.75 | 56,0 | 200 | 2.20 | 7,0 | 100 | 20,7 | 300 | 150 | 5.91 | 94,8 | 28 | 1.66 | 1.12 | 40-61 | 100
EHF018-32BU- MXX 100 | 51 | 50,8 | 2.00 | 62,5 | 235 | 2.46 | 7,0 | 100 | 20,7 | 300 | 170 | 6.69 | 94,8 | 28 | 1.87 | 1.26 | 40-61 | 100
EHF018-40BU- MXX 100 | 60 | 63,5 | 2.50 | 74,5 | 290 | 2.93 | 7,0 | 100 | 20,7 | 300 | 200 | 8.78 | 94,8 | 28 | 2.19 | 1.47 | 40-61 | 100
EHF018-48BU- MXX 100 | 80 | 76,2 | 3.00 | 89,0 | 350 | 3.50 | 7,0 | 100 | 20,7 | 300 | 300 | 14.96 | 94,8 | 28 | 3.08 | 2.07 | 40-61 | 100
EHF018-64BU- MXX 100 | 102 | 101,6 | 4.00 | 115,0 | 450 | 4.53 | 7,0 | 100 | 20,7 | 300 | 500 | 19.68 | 94,8 | 28 | 4.28 | 2.88 | 40-61 | 100

* Additional colors available BK-Black and RD-Red

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Refer to warnings and safety information on pages 0-1 – 0-16.

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.
### 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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| EHF011-16BU- | 25 | 25.4 | 1.00 | 37.0 | 1.46 | 10.5 | 150 | 450 | 75 | 2.95 | 94.8 | 28 | 0.81 | 0.54 | 40-61 | 100 |
| EHF011-20BU- | 31 | 31.8 | 1.25 | 44.0 | 1.73 | 10.5 | 150 | 450 | 95 | 3.74 | 94.8 | 28 | 1.06 | 0.71 | 40-61 | 100 |
| EHF011-24BU- | 38 | 38.1 | 1.50 | 51.0 | 2.01 | 10.5 | 150 | 450 | 110 | 4.33 | 94.8 | 28 | 1.34 | 0.90 | 40-61 | 100 |
| EHF011-28BU- | 45 | 44.5 | 1.75 | 57.5 | 2.26 | 10.5 | 150 | 450 | 130 | 5.12 | 94.8 | 28 | 1.53 | 1.03 | 40-61 | 100 |
| EHF011-32BU- | 51 | 50.8 | 2.00 | 65.0 | 2.56 | 10.5 | 150 | 450 | 150 | 5.91 | 94.8 | 28 | 1.87 | 1.26 | 40-61 | 100 |
| EHF011-40BU- | 60 | 63.5 | 2.50 | 77.5 | 3.05 | 10.5 | 150 | 450 | 280 | 11.02 | 94.8 | 28 | 2.29 | 1.54 | 40-61 | 100 |
| EHF011-48BU- | 80 | 76.2 | 3.00 | 92.0 | 3.62 | 10.5 | 150 | 450 | 340 | 13.39 | 94.8 | 28 | 2.98 | 2.00 | 40-61 | 100 |
| EHF011-64BU- | 102 | 101.6 | 4.00 | 117.5 | 4.63 | 10.5 | 150 | 450 | 450 | 17.72 | 94.8 | 28 | 3.94 | 2.64 | 40-61 | 100 |

* Additional colors available BK-Black and RD-Red

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**Food and Beverage – Food Suction & Discharge**

Refer to warnings and safety information on pages O-1 – O-16. 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

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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* Additional colors available BK-Black and RD-Red

Refer to warnings and safety information on pages 0-1 – 0-16. 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 on pages O-1 – O-16. 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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* 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

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

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

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

Refer to warnings and safety information on pages O-1 – O-16. 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

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

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

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* Additional colors available BK-Black and BU-Blue

Refer to warnings and safety information on pages O-1 – O-16. 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**

---

### 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

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

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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#### Part Numbers and Specifications:

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

---

Refer to warnings and safety information on pages 0-1 – 0-16. 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

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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

**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 Oper Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length** |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
**EHB502** | mtr | ft | mm | in | mm | in | bar | psi | bar | psi | mm | in | kPa | in/Hg | kg/m | lbs/ft | mtr | ft |
EHB502-12RD- | MXX | 100 | 19 | 19.0 | 0.75 | 28.5 | 1.12 | 7.0 | 100 | 20.7 | 300 | 50 | 1.97 | 94.8 | 28 | 0.59 | 0.40 | 40-61 | 100 |
EHB502-16RD- | MXX | 100 | 25 | 25.4 | 1.00 | 35.0 | 1.38 | 7.0 | 100 | 20.7 | 300 | 70 | 2.76 | 94.8 | 28 | 0.76 | 0.51 | 40-61 | 100 |
EHB502-20RD- | MXX | 100 | 31 | 31.8 | 1.25 | 43.0 | 1.69 | 7.0 | 100 | 20.7 | 300 | 90 | 3.54 | 94.8 | 28 | 1.00 | 0.67 | 40-61 | 100 |
EHB502-24RD- | MXX | 100 | 38 | 38.1 | 1.50 | 49.0 | 1.93 | 7.0 | 100 | 20.7 | 300 | 100 | 3.94 | 94.8 | 28 | 1.30 | 0.87 | 40-61 | 100 |
EHB502-28RD- | MXX | 100 | 45 | 44.5 | 1.75 | 55.5 | 2.19 | 7.0 | 100 | 20.7 | 300 | 120 | 4.72 | 94.8 | 28 | 1.52 | 1.02 | 40-61 | 100 |
EHB502-32RD- | MXX | 100 | 51 | 50.8 | 2.00 | 62.0 | 2.44 | 7.0 | 100 | 20.7 | 300 | 140 | 5.51 | 94.8 | 28 | 1.71 | 1.15 | 40-61 | 100 |
EHB502-40RD- | MXX | 100 | 60 | 63.5 | 2.50 | 75.0 | 2.95 | 7.0 | 100 | 20.7 | 300 | 260 | 10.24 | 94.8 | 28 | 2.00 | 1.34 | 40-61 | 100 |
EHB502-48RD- | MXX | 100 | 80 | 76.2 | 3.00 | 89.0 | 3.50 | 7.0 | 100 | 20.7 | 300 | 310 | 12.20 | 94.8 | 28 | 2.93 | 1.97 | 40-61 | 100 |
EHB502-64RD- | MXX | 100 | 102 | 101.6 | 4.00 | 115.0 | 4.53 | 7.0 | 100 | 20.7 | 300 | 420 | 16.54 | 94.8 | 28 | 4.06 | 2.73 | 40-61 | 100 |

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Oper Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length** |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
**EHB503** | mtr | ft | mm | in | mm | in | bar | psi | bar | psi | mm | in | kPa | in/Hg | kg/m | lbs/ft | mtr | ft |
EHB503-12RD- | MXX | 100 | 19 | 19.0 | 0.75 | 31.0 | 1.22 | 10.5 | 150 | 31 | 450 | 60 | 2.36 | 94.8 | 28 | 0.56 | 0.38 | 40-61 | 100 |
EHB503-16RD- | MXX | 100 | 25 | 25.4 | 1.00 | 38.0 | 1.50 | 10.5 | 150 | 31 | 450 | 75 | 2.95 | 94.8 | 28 | 0.72 | 0.48 | 40-61 | 100 |
EHB503-20RD- | MXX | 100 | 31 | 31.8 | 1.25 | 45.0 | 1.77 | 10.5 | 150 | 31 | 450 | 95 | 3.74 | 94.8 | 28 | 0.95 | 0.64 | 40-61 | 100 |
EHB503-24RD- | MXX | 100 | 38 | 38.1 | 1.50 | 52.0 | 2.05 | 10.5 | 150 | 31 | 450 | 110 | 4.33 | 94.8 | 28 | 1.19 | 0.80 | 40-61 | 100 |
EHB503-28RD- | MXX | 100 | 45 | 44.5 | 1.75 | 58.5 | 2.30 | 10.5 | 150 | 31 | 450 | 130 | 5.12 | 94.8 | 28 | 1.36 | 0.91 | 40-61 | 100 |
EHB503-32RD- | MXX | 100 | 51 | 50.8 | 2.00 | 66.0 | 2.60 | 10.5 | 150 | 31 | 450 | 150 | 5.91 | 94.8 | 28 | 1.66 | 1.11 | 40-61 | 100 |
EHB503-40RD- | MXX | 100 | 60 | 63.5 | 2.50 | 78.5 | 3.09 | 10.5 | 150 | 31 | 450 | 280 | 11.02 | 94.8 | 28 | 2.08 | 1.40 | 40-61 | 100 |
EHB503-48RD- | MXX | 100 | 80 | 76.2 | 3.00 | 93.0 | 3.66 | 10.5 | 150 | 31 | 450 | 340 | 13.39 | 94.8 | 28 | 2.68 | 1.80 | 40-61 | 100 |
EHB503-64RD- | MXX | 100 | 102 | 101.6 | 4.00 | 118.5 | 4.67 | 10.5 | 150 | 31 | 450 | 450 | 17.72 | 94.8 | 28 | 3.54 | 2.38 | 40-61 | 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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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

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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
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Refer to warnings and safety information on pages 0-1 – 0-16. 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

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 Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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* Additional colors available BK-Black and RD-Red

Refer to warnings and safety information on pages O-1 – O-16. 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.
### EHF019 - Alcohol Transfer

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

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

**Application:**
- 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.** | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Weight | Length |
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*Additional colors available BK-Black and BU-Blue*
# Food and Beverage
## Beverage Discharge
### EHB500 & EHB501
#### Beer/Wine Light Duty Discharge

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

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

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

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

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.**

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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>
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* Product available in additional colors BK-Black and BU-Blue

---

Refer to warnings and safety information on pages O-1 – O-16. 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**

**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**

| # | Part No. | mtr | ft | DN | mm | in | mm | in | bar | psi | bar | psi | kg/m | lbs/ft | mtr | ft |
|---|---------|-----|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-------|------|-----|----|
| EHF004-12BU- MXX | 100 | 19 | 19,0 | 0.75 | 30,0 | 1.18 | 10,5 | 150 | 31,0 | 450 | 0,63 | 0.43 | 40-61 | 100 |
| EHF004-16BU- MXX | 100 | 25 | 25,4 | 1.00 | 37,0 | 1.46 | 10,5 | 150 | 31,0 | 450 | 0,82 | 0.55 | 40-61 | 100 |
| EHF004-20BU- MXX | 100 | 31 | 31,8 | 1.25 | 44,0 | 1.73 | 10,5 | 150 | 31,0 | 450 | 1,08 | 0.73 | 40-61 | 100 |
| EHF004-24BU- MXX | 100 | 38 | 38,1 | 1.50 | 51,0 | 2.00 | 10,5 | 150 | 31,0 | 450 | 1,37 | 0.92 | 40-61 | 100 |
| EHF004-28BU- MXX | 100 | 45 | 44,5 | 1.75 | 57,5 | 2.26 | 10,5 | 150 | 31,0 | 450 | 1,57 | 1.06 | 40-61 | 100 |
| EHF004-32BU- MXX | 100 | 51 | 50,8 | 2.00 | 65,0 | 2.56 | 10,5 | 150 | 31,0 | 450 | 1,91 | 1.28 | 40-61 | 100 |
| EHF004-40BU- MXX | 100 | 60 | 63,5 | 2.50 | 77,5 | 3.05 | 10,5 | 150 | 31,0 | 450 | 2,33 | 1.57 | 40-61 | 100 |
| EHF004-48BU- MXX | 100 | 80 | 76,2 | 3.00 | 92,0 | 3.62 | 10,5 | 150 | 31,0 | 450 | 3,03 | 2.04 | 40-61 | 100 |
| EHF004-64BU- MXX | 100 | 102 | 101,6 | 4.00 | 117,5 | 4.63 | 10,5 | 150 | 31,0 | 450 | 3,96 | 2.66 | 40-61 | 100 |

* Product also available in BU-Blue and RD-Red
EATON Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014

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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**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

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**

**Beverage Discharge**

---

**H160**

**CLEARFORCE™—NR**

---

**Construction:**
- **Tube:** Clear PVC
  - NSF-51 certified
  - FDA approved material
- **Cover:** Clear PVC

**Operating Temperature:**
- -10°C to +66°C
  - (-15°F to +150°F)

---

**Application:**
- • For food and beverage dispensing

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

**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**
**Length**

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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

---

**Part No.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³*
**EATON Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014**

**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

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

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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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*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

**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

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

**Refer to warnings and safety information on pages O-1 – O-16. 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 Specifications:

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<th>Part No.</th>
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<th>Hose O.D.</th>
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*Abrasion loss value acc. DIN53516 ≤120mm³*
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

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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*Abrasion loss value acc. DIN53516 ≤120mm³
Food and Beverage
Dry Bulk Discharge

EATON
Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014

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

Refer to warnings and safety information on pages O-1 – O-16.
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 ≤120mm³
Food and Beverage
Dry Bulk Discharge

Construction:
Tube: Natural rubber
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: Natural/SBR blend rubber

Operating Temperature:
-29°C to +71°C
(-20°F to +160°F)

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

Markets:
• Food processing
• Tank truck
• Plastic industry

Type of Couplings:
• Cam and groove

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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Refer to warnings and safety information on pages O-1 – O-16. 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

---

**Part No.** | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Weight | Length
--- | --- | --- | --- | --- | --- | ---
EHF022-32- | MXX 100 | 51 | 50,8 | 2.00 | 60,4 | 2.38 | 5,0 | 75 | 15,5 | 225 | 0.98 | 0.66 | 40-61 | 100
EHF022-40- | MXX 100 | 60 | 63,5 | 2.50 | 73,0 | 2.87 | 5,0 | 75 | 15,5 | 225 | 1.20 | 0.81 | 40-61 | 100
EHF022-48- | MXX 100 | 80 | 76,2 | 3.00 | 86,0 | 3.39 | 5,0 | 75 | 15,5 | 225 | 1.43 | 0.96 | 40-61 | 100
EHF022-50- | MXX 100 | 80 | 80,0 | 3.15 | 90,0 | 3.54 | 5,0 | 75 | 15,5 | 225 | 1.49 | 1.00 | 40-61 | 100
EHF022-56- | MXX 100 | 90 | 90,0 | 3.54 | 100,0 | 3.94 | 5,0 | 75 | 15,5 | 225 | 1.84 | 1.24 | 40-61 | 100
EHF022-64- | MXX 100 | 102 | 101,6 | 4.00 | 112,0 | 4.41 | 5,0 | 75 | 15,5 | 225 | 2.06 | 1.38 | 40-61 | 100
EHF022-67- | MXX 100 | 110 | 110,0 | 4.33 | 120,0 | 4.72 | 5,0 | 75 | 15,5 | 225 | 2.23 | 1.50 | 40-61 | 100
EHF022-80- | MXX 100 | 130 | 127,0 | 5.00 | 137,0 | 5.39 | 5,0 | 75 | 15,5 | 225 | 2.55 | 1.71 | 40-61 | 100
EHF022-96- | MXX 100 | 150 | 152,4 | 6.00 | 164,0 | 6.46 | 5,0 | 75 | 15,5 | 225 | 3.61 | 2.43 | 40-61 | 100
EHF022-128- | M20 20 | 200 | 203,2 | 8.00 | 215,0 | 8.46 | 5,0 | 75 | 15,5 | 225 | 4.77 | 3.21 | 20 | 20

Refer to warnings and safety information on pages O-1 – O-18. 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.
## H1066  Creamery/Packing Washdown

**Construction:**
- **Tube:** Nitrile
- **Reinforcement:** 2-braid fiber
- **Cover:** Pin-pricked vinyl nitrile

**Operating Temperature:**
\[-40^\circ\text{C} \text{ to } +82^\circ\text{C}\]
\[-40^\circ\text{F} \text{ to } +180^\circ\text{F}\]

**Application:**
- For washdown of food processing facilities and equipment
- *Not for conveying milk.*

**Markets:**
- Food processing
- Meat packing and rendering
- Chicken processing
- Dairies
- Canneries
- Syrup manufacturing

**Type of Couplings:**
- Barbed inserts
- "U" series

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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Food and Beverage
Cleaning Service

**H9673**

**WASHDOWN™ 1250**

**Construction:**
- Tube: Nitrile
- Reinforcement: 1- and 2-braid fiber
- Cover: Vinyl nitrile

**Operating Temperature:**
- -40°C to +82°C
  (-40°F to +180°F)

**Application:**
- For washdown of food processing facilities and equipment

**Markets:**
- Food processing
- Industry cleaning
- Construction
- Poultry

**Reference Couplings:**
- “U” Series
- Combination nipple

**Contact coupling manufacturer for attachment procedure and other coupling recommendations**

<table>
<thead>
<tr>
<th>Part No. (H9673)</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Operating Pressure</th>
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</table>

Refer to warnings and safety information on pages O-1 – O-16.
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
Cleaning Service

H9610

WASHDOWN™ 1000

Construction:
- Tube: Nitrile
- Reinforcement: 1-braid fiber
- Cover: Vinyl nitrile

Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

Application:
- For washdown of food processing facilities and equipment

Markets:
- Food processing
- Industry cleaning
- Construction
- Poultry

Type of Couplings:
- “U” Series

Refer to warnings and safety information on pages O-1 – O-16.
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>
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<tbody>
<tr>
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</table>
Food and Beverage
Cleaning Service

**EATON Industrial Hose Master Catalog - Global**

**E-HOIN-SS001-E**

2014

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**Food and Beverage – Cleaning Service**

**EHF003**

**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

**Type of Couplings:**

- Barbed inserts

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>
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* Additional colors available BK-Black and RD-Red

---

Refer to warnings and safety information on pages O-1 – O-16.

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
Cleaning Service

**H1531**

**SUPRAFORCE™**

**Construction:**
- **Tube:** Rubber modified thermoplastic
- **Reinforcement:** 2-spiral fiber
- **Cover:** Rubber modified thermoplastic

**Operating Temperature:**
-12°C to +82°C
(-10°F to +180°F)

**Application:**
- For high pressure spray or washdown

**Markets:**
- Food processing
- Industry cleaning
- Construction

**Type of Couplings:**
- Barbed inserts

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

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<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>Weight kg/m</th>
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<th>Length ft</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 on 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

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
Gaseous

LPG
- HH00 UL LPG .................................................. F-4
- EH920 UL LPG .................................................. F-5
- EHG003 Liquid Propane Suction & Discharge ........... F-6
- EHG004 Liquid Propane Suction & Discharge ........... F-7

Nitrogen
- EHG001 Nitrogen Transfer ................................. F-8

Carbon Dioxide
- EHG002 Carbon Dioxide Discharge .................... F-9
Gaseous

**LPG**

**H900 UL LPG**

*Application:* Transfer and delivery of propane and butane, and natural gas in open, well ventilated areas (1 psiG max. working pressure): UL 21 Approved

*Tube:* Nitrile

*Reinforcement:* Textile braid

*Temp:* -40°C to +60°C, (-40°F to +140°F)

*Pressure:* 24 bar / 350 psi

**EH920 UL LPG**

*Application:* Transfer and delivery of propane and butane, and natural gas in open, well ventilated areas (1 psiG max. working pressure): UL 21 Approved

*Tube:* Nitrile

*Reinforcement:* Textile braid and stainless steel static wire

*Temp:* -40°C to +60°C, (-40°F to +140°F)

*Pressure:* 24 bar / 350 psi

**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): TS EN 1762 TYPE SD

*Tube:* Static-dissipating NBR

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

*Cover:* Pin-pricked synthetic rubber

*Temp:* -30°C to +70°C, (-22°F to +158°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): TS EN 1762 TYPE SD LTS

*Tube:* Static-dissipating NBR

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

*Cover:* Pin-pricked synthetic rubber

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

*Pressure:* 25 bar / 365 psi

**Nitrogen**

**EHG001 Nitrogen Transfer**

*Application:* Transfer and delivery of nitrogen

*Tube:* Natural and synthetic rubber

*Reinforcement:* High-tensile synthetic textile

*Cover:* Synthetic rubber

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

*Pressure:* 103 bar / 1500 psi

**Carbon Dioxide**

**EHG002 Carbon Dioxide Discharge**

*Application:* Transfer of carbon dioxide

*Tube:* Natural and synthetic rubber

*Reinforcement:* High-tensile synthetic textile

*Cover:* Synthetic rubber

*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

**H900**

**UL LPG**

UL 21 Approved

---

**Construction:**
Tube: Nitrile
Reinforcement: Textile braid
Cover: Pin-pricked vinyl nitrile

**Operating Temperature:**
-40°C to +60°C
(-40°F to +140°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:**
- "U" Series
- Swaged or crimp male couplings

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Operating Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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</thead>
<tbody>
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<td></td>
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<td>ft</td>
<td>DN mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
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<td>25,4</td>
<td>1.00</td>
<td>38,1</td>
<td>1.50</td>
</tr>
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</table>

*Additional lengths available on select items

---

Refer to warnings and safety information on pages 0-1 – 0-18.

**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.
Gaseous LPG

EH920

UL LPG
UL 21 Approved

Construction:
 Tube: Nitrile
 Reinforcement: Textile braids and stainless steel anti-static wire
 Cover: Pin-pricked neoprene

Operating Temperature:
-40°C to +60°C
(-40°F to +140°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

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D. mtr</th>
<th>Hose O.D. mm</th>
<th>Max Operating Pressure bar</th>
<th>Burst Pressure bar</th>
<th>Weight kg/m</th>
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</table>
### 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

**Operating Temperature:**
-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**

**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

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

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<th>ft</th>
<th>DN</th>
<th>mm</th>
<th>in</th>
<th>Hose I.D.</th>
<th>in</th>
<th>mm</th>
<th>in</th>
<th>bar</th>
<th>psi</th>
<th>bar</th>
<th>psi</th>
<th>mm</th>
<th>in</th>
<th>kPa</th>
<th>in/Hg</th>
<th>kg/m</th>
<th>lbs/ft</th>
<th>mtr</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

**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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**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

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Refer to warnings and safety information on pages O-1 – O-16.  
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.
Gaseous
Nitrogen

**EHG001**

**Nitrogen Transfer**

**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 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.

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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Refer to warnings and safety information on pages O-1 – O-16.
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.
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

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Refer to warnings and safety information on pages O-1 – O-16.

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.
Notes
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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:** 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:** 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 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

H0347 WILDCAT™ Dry Material

**Application:** Transfer of dry bulk, of bottle caps and of cleaning agents. Discharge of abrasive materials
**Tube:** Static dissipating natural rubber/SBR
**Reinforcement:** 2-ply fiber with dual helical wires
**Cover:** SBR
**Temp:** -23°C to +71°C, (-10°F to +160°F)
**Pressure:** 7 bar / 100 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:** 6 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:** 6 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
**Temp:** -40°C to +180°C Intermittent to 200°C (-40°F to +356°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

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
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.

---

**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.

---

**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**

**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

**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

### Specifications

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Refer to warnings and safety information on pages O-1 – O-16. 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
Coupling and Gaskets for EHM001

RDSA

Coupling dimensions according to PN 10-DIN 2576

Material: Aluminum

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CONTA

Gaskets for Frame Hose Couplings

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### 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

**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

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

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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*Coupling sold separately

Refer to warnings and safety information on pages O-1 – O-16. 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

**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

---

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Minimum Bend Radius</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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

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

Material Handling – Slurry & Abrasive Resistant

Refer to warnings and safety information on pages O-1 – O-16.
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 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

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<th>Hose O.D.</th>
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*Coupling sold separately
**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.

**Table: EHK013**

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<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Minimum Bend Radius</th>
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Eaton Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014

Material Handling
Slurry & Abrasive Resistant

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

Refer to warnings and safety information on pages O-1 - O-16.
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 Oper Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length

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Material Handling
Slurry & Abrasive Resistant

EHK012

Abrasoin 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

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

Application:
For 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

Refer to warnings and safety information on pages O-1 – O-16. 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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## 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

---

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Refer to warnings and safety information on pages O-1 – O-16.

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

EHK011 Abrasion 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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**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

---

**EHK004 Channeled Dry Bulk Suction & Discharge**

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

Dry Material

**EHK003 Corrugated Dry Bulk Suction & Discharge**

**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

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

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

**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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<th>Part No.</th>
<th>DN</th>
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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

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### Material Handling – Dry Material

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#### EHK002

**Dry Bulk Suction & Discharge**

---

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

**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

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

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

**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**

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*Abrasion loss value acc. DIN53516 ≤60mm³*
**EHK016 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

---

**Material Handling – Dry Material**

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

EHK001
Dry Bulk Flat Discharge

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

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

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

**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>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
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<th>Max Oper Pressure</th>
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*Abrasion loss value acc. DIN53516 ≤60mm³
Material Handling
Dry Material

H0347

WILDCAT™ Dry Material
formerly Sabertooth

Construction:
Tube: Static dissipating natural rubber/SBR
Reinforcement: 2-ply fiber with dual helical wires
Cover: SBR

Operating Temperature:
-23°C to +71°C
(-10°F to +160°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

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>Hose O.D.</th>
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<th>Minimum Bend Radius</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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

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

Contact coupling manufacturer for
attachment procedure and other
coupling recommendations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
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<th>Weight</th>
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Material Handling

Dry Material

**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

**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 on pages O-1 – O-16. 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

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 +350F

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

<table>
<thead>
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<th>#</th>
<th>Part No.</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>bar psi</td>
<td>mm in</td>
<td>bar psi</td>
<td>mm in</td>
<td>kPa in/Hg</td>
<td>kg/m</td>
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Refer to warnings and safety information on pages O-1 – O-16. 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.
## 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)
- Intermittent to 392°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.

**Part No.** | Hose I.D. | Hose O.D. | Max Operating Pressure | Burst Pressure | Weight | Length
---|---|---|---|---|---|---
EHM003-16- | MXX 100 | 25 | 25.4 | 1.00 | 39 | 1.54 | 10,5 | 150 | 31,0 | 450 | 0,83 | 0.55 | 40-61 | 100
EHM003-20- | MXX 100 | 31 | 31.8 | 1.25 | 46 | 1.81 | 10,5 | 150 | 31,0 | 450 | 1,00 | 0.67 | 40-61 | 100
EHM003-24- | MXX 100 | 38 | 38.1 | 1.50 | 54 | 2.13 | 10,5 | 150 | 31,0 | 450 | 1,41 | 0.96 | 40-61 | 100
EHM003-32- | MXX 100 | 51 | 50.8 | 2.00 | 68 | 2.68 | 10,5 | 150 | 31,0 | 450 | 1,86 | 1.31 | 40-61 | 100
EHM003-40- | MXX 100 | 60 | 63.5 | 2.50 | 81 | 3.19 | 10,5 | 150 | 31,0 | 450 | 2,39 | 1.61 | 40-61 | 100
EHM003-48- | MXX 100 | 80 | 76.2 | 3.00 | 94 | 3.70 | 10,5 | 150 | 31,0 | 450 | 2,81 | 1.89 | 40-61 | 100
EHM003-64- | MXX 100 | 102 | 101.6 | 4.00 | 120 | 4.72 | 10,5 | 150 | 31,0 | 450 | 3,85 | 2.59 | 40-61 | 100
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

**Refer to warnings and safety information on pages 0-1 – 0-16.**

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>
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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

**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

---

**Part No.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<td>500 19.68</td>
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*Abrasion loss value acc. DIN53516 ≤60mm³

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Refer to warnings and safety information on pages O-1 – O-16. 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

**EHC501**

**Sandblast – 35mm³**

TS5928 - EN ISO 3861

<table>
<thead>
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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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<th>Minimum Bend Radius</th>
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*Abrasion loss value acc. DIN53516 ≤35mm³

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**Refer to warnings and safety information on pages O-1 – O-18. 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.**
### EHC500 Sandblast – 60mm³

**TS 5928 - EN ISO 3861**

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*Abrasion loss value acc. DIN53516 ≤60mm³*

---

**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

---

Refer to warnings and safety information on pages O-1 – O-16.  
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.
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.
Oil and Gas Exploration

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EHC018 Hard Wall Heavy Duty Chemical S & D ....... H-18
### Oil and Gas Exploration

**Frac and Well Service**

<table>
<thead>
<tr>
<th>Model</th>
<th>Name</th>
<th>Application</th>
<th>Pressure</th>
<th>Temperature</th>
<th>Cover</th>
<th>Tube</th>
<th>Reinforcement</th>
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<tr>
<td>EHP001</td>
<td>BLACKCAT™ FRAC</td>
<td>Petroleum based fluids, non-potable and salt water, fracturing solutions and slurries</td>
<td>10,5 bar / 150 psi</td>
<td>-35°C to +70°C, (-31°F to +158°F)</td>
<td>Nitrile blend</td>
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**Suction and Discharge**

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<td>Hard Wall Material Handling S &amp; D</td>
<td>Suction and discharge of abrasive materials, barite bentonite</td>
<td>17,2 bar / 250 psi</td>
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<td>CR blend</td>
<td>NBR blend</td>
<td>High-tensile synthetic textile with helical wire and anti-static copper wire</td>
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<thead>
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<th>Model</th>
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<th>Application</th>
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<td>Suction and discharge of high pressure liquid mud, mineral oils, etc.</td>
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<td>NBR blend</td>
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<th>Name</th>
<th>Application</th>
<th>Pressure</th>
<th>Temperature</th>
<th>Cover</th>
<th>Tube</th>
<th>Reinforcement</th>
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<td>Transfer drilling mud or crude oil, and petroleum products with aromatic content up to 50%</td>
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<td>High-tensile synthetic textile - single steel helical wire; and dual on 8” &amp; 10” with an anti-static copper wire</td>
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<th>Temperature</th>
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<td>Transfer applications drilling mud or crude oil. Not recommended for refined petroleum products</td>
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**Discharge**

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<td>Discharge of abrasive materials including barite bentonite</td>
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<th>Name</th>
<th>Application</th>
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**Potable Water**

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<td>Suction and discharge of corrosive chemicals and solvents</td>
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<td>UHMW-PE</td>
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<th>Reinforcement</th>
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<td>EPDM</td>
<td>PE blend</td>
<td>High-tensile synthetic textile, single steel or dual helical wires</td>
</tr>
</tbody>
</table>
Oil and Gas Exploration
Introduction and Safety Information

![Image]

**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.

**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.
**Oil and Gas Exploration**

**Frac and Well Service**

---

**EHP001**  
**BLACKCAT™ FRAC**

**Construction:**
- Tube: Nitrile blend (RMA Class A)
- Reinforcement: 4-ply polyester fabric
- Cover: BRUISER™ abrasion resistant cover

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

**Application:**
- Petroleum based fluids, non-potable and salt water, fracturing solutions, and slurries

**Markets:**
- Oil and gas exploration
- Well service
- Fracking industry

**Type of Couplings:**
- King crimp style combination nipples
- One-piece hammer union frac fitting

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information on pages O-1 – O-16. 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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Oil and Gas Exploration
Frac and Well Service

H0377
Kelly Power Drilling

Construction:
Tube: Nitrile/Hypalon blend
Reinforcement: 4-spiral wire
Cover: Neoprene

Operating Temperature:
-40°C to +121°C
(-40°F to +250°F)

Application:
- Rotary drilling on portable drilling rigs, work over rigs and slim hole rigs

Markets:
- Oil and gas exploration
- Well service
- Fracking industry

Type of Couplings:
- 430 “U” Series
- Unions
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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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

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

**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

**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 on pages 0-1 – 0-18.
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:** 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

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

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### 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

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Refer to warnings and safety information on pages O-1 – O-16.
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

**EHP007**

### 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

**Operating Temperature:**
-35°C to +70°C (-31°F to +158°F)

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Refer to warnings and safety information on pages O-1 – O-16.
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

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

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<th>Part No.</th>
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Refer to warnings and safety information on pages 0-1 – 0-16.
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.
**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

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

**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

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**Part No.**

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Refer to warnings and safety information on pages O-1 – O-16. 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.
**EHM004**

**Soft Wall Material Handling Discharge**

**Construction:**
- **Tube:** Static dissipating synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and 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>
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<tr>
<th>#</th>
<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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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>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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</table>
## EHW007  Soft Wall Water Discharge

### Construction:
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** CR blend

### Application:
- For water discharge

### Markets:
- Construction
- Industrial
- Oil and gas exploration

### Operating Temperature:
- -35°C to +80°C
  (-31°F to +176°F)

### Type of Couplings:
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

### Specifications:

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<th>Part No.</th>
<th>Hose I.D.</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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.
**EHF007**

**Heavy Duty Potable Water Suction & Discharge**

**Construction:**
- **Tube:** SBR blend FDA approved material and 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
- Oil and gas exploration

**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>
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</table>
Oil and Gas Exploration
Potable Water

EHF006
Soft Wall Potable Water Discharge

Construction:
Tube: SBR blend FDA approved material and 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
Oil and gas exploration

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>
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Refer to warnings and safety information on pages O-1 – O-16.
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.
**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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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

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</table>
Oil and Gas Exploration

Chemical

**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

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>
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<th>Max Oper Pressure</th>
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<th>Length</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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

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Petroleum

**Aircraft Refueling**

**EHJ002 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

**EHJ003 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**

**EHP506 & EHP507 Light Duty Dock Oil Suction & Discharge**

- **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**

**EHP511 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)
- **Pressure**: 16 bar / 232 psi

**EHP510 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

**EHP509 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)
- **Pressure**: 16 bar / 232 psi

**EHP508 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

**Suction & Discharge**

**H1193 ROYALFLEX™ Petroleum**

- **Application**: Transfer of petroleum products
- **Tube**: Nitrile blend
- **Reinforcement**: High-tensile synthetic textile with dual steel helical wires and dual anti-static copper wires
- **Cover**: NBR (RMA Class A)
- **Temp**: -35°C to +70°C, (-31°F to +158°F)
- **Pressure**: 20.7 bar / 300 psi

**EHP522 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 steel helical wires and anti-static copper wire
- **Cover**: NBR blend
- **Temp**: -20°C to +70°C, (-4°F to +158°F)
- **Pressure**: 16 bar / 230 psi

**EHP518 Petroleum/Oil Suction & Discharge**

- **Application**: Suction and discharge of petroleum products: EN12115 Type SD
- **Tube**: NBR blend
- **Reinforcement**: High-tensile synthetic textile 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

**EHP516 Petroleum/Oil Suction & Discharge**

- **Application**: Suction and discharge of petroleum products: EN1761 Type SD
- **Tube**: NBR blend
- **Reinforcement**: High-tensile synthetic textile 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

**EHP514 Petroleum/Oil Suction & Discharge**

- **Application**: Suction and discharge of petroleum products: EN1360 Type 2 CAT M
- **Tube**: NBR
- **Reinforcement**: High-tensile synthetic textile 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

**H0327 JAGUAR™ Heavy Duty Petroleum S & D**

- **Application**: Suction and discharge of petroleum products
- **Tube**: Vinyl nitrile
- **Reinforcement**: 2-ply fiber with helical wire
- **Cover**: Vinyl nitrile
- **Temp**: -40°C to +82°C, (-40°F to +180°F)
- **Pressure**: 17.2 bar / 250 psi

**EHP502 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

**EHP521 PUMA™ Cold Temperature S & D**

- **Application**: Suction & discharge of petroleum products
- **Tube**: NBR
- **Reinforcement**: High-tensile synthetic textile with dual helical wires and anti-static copper wire **Cover**: Flat corrugated NBR blend
- **Temp**: -80°C to +80°C, (-67°F to +176°F)
- **Pressure**: 10.5 bar / 150 psi
EHP519 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

H0363 PUMA™ Suction & Discharge

Application: Suction & discharge of petroleum products
Tube: Vinyl nitrile blend
Reinforcement: 2-ply fiber with dual helical wires
Cover: Corrugated vinyl nitrile blend
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 7.0-10.5 bar / 100-150 psi

EHP505 Channeled Petroleum/Oil S & D

Application: Suction and discharge of petroleum products with aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile dual steel helical wires and dual anti-static copper wire
Cover: Channeled CR blend
Temp: -30°C to +70°C, (-22°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP503 Flat Corrugated Tank Truck

Application: Suction and discharge of petroleum products
Tube: NBR blend
Reinforcement: High-tensile synthetic textile with a single steel helical wire and anti-static copper wire
Cover: Flat corrugated NBR blend
Temp: -35°C to +70°C, (-31°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP512 Corrugated Petroleum/Oil S & D

Application: Suction and discharge of petroleum products with aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile helical wire and anti-static copper wire
Cover: Corrugated NBR blend
Temp: -35°C to +70°C, (-31°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP500 Petroleum/Oil S & D

Application: Suction and discharge of petroleum products
Tube: NBR blend
Reinforcement: High-tensile synthetic textile with a single steel helical wire and anti-static copper wire
Cover: NBR blend
Temp: -35°C to +70°C, (-31°F to +158°F)
Pressure: 10.5 bar / 150 psi

H0369 BOBCAT™ Corrugated Light Duty

Application: Transfer and blending of petroleum products; transfer of crude oil, salt water, slimes and non-potable water
Tube: Vinyl nitrile blend
Reinforcement: 2-ply fiber with dual helical wires
Cover: Corrugated vinyl nitrile blend
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 7.0-10.5 bar / 100-150 psi

EHP517 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: CR blend
Temp: -35°C to +70°C, (-31°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP513 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: EN12115 NBR Type D
Temp: -20°C to +70°C, (-4°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP515 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: EN1761 Type D
Temp: -20°C to +70°C, (-4°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP519 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: EN1360 Type 1
Temp: -30°C to +70°C, (-22°F to +158°F)
Pressure: 10.5 bar / 150 psi

EHP517 High Pressure Petroleum Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: EN12115 NBR Type D
Temp: -35°C to +70°C, (-31°F to +158°F)
Pressure: 17.2 bar / 250 psi

EHP501 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: NBR blend
Temp: -30°C to +70°C, (-22°F to +158°F)
Pressure: 10.5 bar / 150 psi

E0436 Light Duty Petroleum S & D

Application: Suction and discharge of petroleum products
Tube: NBR blend
Reinforcement: High-tensile synthetic textile dual steel helical wire and anti-static copper wire
Cover: NBR blend
Temp: -40°C to +71°C, (-40°F to +160°F)
Pressure: 7.0 bar / 100 psi

Discharge

EHP517 Petroleum/Oil Discharge

Application: Discharge of petroleum products, aromatic content up to 50%
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and dual anti-static copper wire
Cover: CR blend
Temp: -30°C to +70°C, (-22°F to +158°F)
Pressure: 16 bar / 230 psi

H901 BOSTON BULLDOG™ Fuel Oil

Application: Fuel oil transfer for residential and/or commercial delivery
Tube: Nitrile rubber (RMA Class A)
Reinforcement: Double fiber braid
Cover: Nitrile rubber
Temp: -40°C to +82°C, (-40°F to +180°F)
Pressure: 17.2 bar / 250 psi
Petroleum
Introduction and Safety Information

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 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.
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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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<th>Hose O.D.</th>
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### EHJ003

#### Aircraft Refueling Suction & Discharge

**EN1361 Type E**

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#### 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 on pages O-1 – O-16.

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.
**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

**Operating Temperature:**
-30°C to +82°C
(-50°F to +180°F)

**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

---

**Part No.**

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## 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 on pages O-1 – O-16. 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. Minimum Bend Radius Weight Length

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Petroleum Dispensing

**EHP510**

**Petroleum Dispensing**

TS EN 1360 Type 3-M-NT

**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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* Product also available BU-Blue, GN-Green, and RD-Red
**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.

**Part No.**

<table>
<thead>
<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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**Refer to warnings and safety information on pages O-1 – D-16. 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

**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

![EATON PETROLEUM DISPENSING EHP508-16](image)

### Part No. Specifications

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*For additional colors use BU-Blue, GR-Green or RD-Red.*
Petroleum
Suction & Discharge

Construction:
Tube: Nitrile blend
Reinforcement: 100% polyester and helical wire
Cover: Nitrile blend

Operating Temperature:
-29°C to +82°C
(-20°F to +180°F)

Application:
• For transfer of petroleum products

Markets:
• Petroleum industry
• Oil exploration
• Tank trucks
• Waste hauling
• Batch plants
• Refineries

Type of Couplings:
• Male NPT
• Cam locks

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information on pages O-1 – O-16. 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.
## 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)

### Operating Temperature:
-35°C to +70°C
(-31°F to +158°F)

### 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.

### Specifications Table:

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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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

**Refer to warnings and safety information on pages O-1 – O-16. 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>
<th>Hose I.D.</th>
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<th>Max Oper Pressure</th>
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**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

**Operating Temperature:**
-30°C to +70°C (-22°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

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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

Eaton Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014

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

Type of Couplings:
• Cam and groove
• Combination nipple

Contact coupling manufacturer for attachment procedure and other coupling recommendations

Refer to warnings and safety information on pages O-1 – D-16. 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>
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<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
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**Petroleum**

**Suction & Discharge**

---

**H0327 JAGUAR™ Heavy Duty Petroleum Suction & Discharge**

**Construction:**
- **Tube:** Vinyl nitrile
- **Reinforcement:** 2-ply fiber with helical wire
- **Cover:** Vinyl nitrile

**Operating Temperature:**
- -40°C to +82°C
  (-40°F to +180°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. Hose I.D. Hose O.D. Max Oper Pressure Burst Pressure Minimum Bend Radius Vacuum Weight Length**

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<th>Part No.</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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**

**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

**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.**

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<th>#</th>
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<th>Burst Pressure Bar</th>
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Refer to warnings and safety information on pages O-1 – O-16.

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: 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

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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum</th>
<th>Weight</th>
<th>Length</th>
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**Petroleum**

**Suction & Discharge**

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**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

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

**Operating Temperature:**
- -40°C to +82°C
  (-40°F to +180°F)

**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

---

Refer to warnings and safety information on pages O-1 – D-16. 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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<tr>
<th>Part No.</th>
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**Petroleum**

**Suction & Discharge**

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**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

**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.

---

**Part No.**

<table>
<thead>
<tr>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
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***50 ft. lengths available on select items***
### Petroleum Suction & Discharge

#### H0369

**BOBCAT™ Corrugated Light Duty**

**Construction:**
- **Tube:** Vinyl nitrile
- **Reinforcement:** 2-ply fiber with dual helical wires
- **Cover:** Corrugated vinyl nitrile blend

**Operating Temperature:**
-40°C to +82°C  
(-40°F to +180°F)

**Application:**
- For transfer and blending of petroleum products
- Transfer of crude oil, salt water, slurries and non-potable water

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Tank trucks
- Waste hauling
- Batch plants
- Gasoline drop

**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>Part No.</th>
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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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:** NBR blend  
**Reinforcement:** High-tensile synthetic textile dual steel helical wires and dual anti-static copper wire  
**Cover:** Channeled CR blend  

**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  

---  

## Channeled Petroleum/Oil Suction & Discharge  

### EHP505  

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Oper Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length**  
--- | --- | --- | --- | --- | --- | --- | --- | ---  
EHP505-12- | MXX | 100 | 19 | 19,0 | 0.75 | 29,0 | 1.14 | 10,5 | 150 | 31 | 450 | 50 | 1.97 | 94,8 | 28 | 0.49 | 0.33 | 40-61 | 100  
EHP505-16- | MXX | 100 | 25 | 25,4 | 1.00 | 35,0 | 1.38 | 10,5 | 150 | 31 | 450 | 70 | 2.76 | 94,8 | 28 | 0.60 | 0.40 | 40-61 | 100  
EHP505-20- | MXX | 100 | 31 | 31,8 | 1.25 | 42,0 | 1.65 | 10,5 | 150 | 31 | 450 | 90 | 3.54 | 94,8 | 28 | 0.81 | 0.54 | 40-61 | 100  
EHP505-24- | MXX | 100 | 38 | 38,1 | 1.50 | 48,0 | 1.89 | 10,5 | 150 | 31 | 450 | 105 | 4.13 | 94,8 | 28 | 0.95 | 0.64 | 40-61 | 100  
EHP505-32- | MXX | 100 | 51 | 50,8 | 2.00 | 63,0 | 2.48 | 10,5 | 150 | 31 | 450 | 150 | 5.91 | 94,8 | 28 | 1.58 | 1.06 | 40-61 | 100  
EHP505-40- | MXX | 100 | 60 | 63,5 | 2.50 | 74,0 | 2.91 | 10,5 | 150 | 31 | 450 | 185 | 7.28 | 94,8 | 28 | 1.79 | 1.20 | 40-61 | 100  
EHP505-48- | MXX | 100 | 80 | 76,2 | 3.00 | 90,0 | 3.54 | 10,5 | 150 | 31 | 450 | 220 | 8.66 | 94,8 | 28 | 2.57 | 1.73 | 40-61 | 100  
EHP505-64- | MXX | 100 | 102 | 101,6 | 4.00 | 117,5 | 4.63 | 10,5 | 150 | 31 | 450 | 300 | 11.81 | 94,8 | 28 | 4.23 | 2.84 | 40-61 | 100  
EHP505-80- | MXX | 100 | 130 | 127,0 | 5.00 | 146,0 | 5.75 | 10,5 | 150 | 31 | 450 | 400 | 15.75 | 80,0 | 24 | 6.02 | 4.05 | 40-61 | 100  
EHP505-96- | MXX | 100 | 150 | 152,4 | 6.00 | 172 | 6.77 | 10,5 | 150 | 31 | 450 | 550 | 21.65 | 80,0 | 24 | 7.06 | 4.75 | 40-61 | 100  

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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

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*Product available in red also use RD as a color indicator when ordering
**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

**Operating Temperature:**
-30°C to +70°C (-22°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

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**Part No.**
- EHP512-12BK-
- EHP512-16BK-
- EHP512-20BK-
- EHP512-24BK-
- EHP512-32BK-
- EHP512-40BK-
- EHP512-48BK-
- EHP512-64BK-
- EHP512-80BK-
- EHP512-96BK-

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*Product also available in RD-Red

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Refer to warnings and safety information on pages O-1 – O-16. 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

**EHP500 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: 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
- 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 on pages O-1 – D-16. 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 Table

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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Petroleum
Suction & Discharge

**H0436**

**Light Duty Petroleum Suction & Discharge**

**Construction:**
- **Tube:** Vinyl nitrile
- **Reinforcement:** 2-ply fiber with dual helical wire
- **Cover:** Vinyl nitrile

**Operating Temperature:**
-40°C to +71°C
(-40°F to +160°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.

---

### Specifications

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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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!![Warnings and safety information on pages O-1 – O-16. 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.]![](image-url)
## 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. Specifications

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<th>Part No.</th>
<th>Hose I.D.</th>
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Petroleum
Discharge

Eaton Industrial Hose Master Catalog - Global E-HOIN-SS001-E 2014

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information on pages O-1 – O-16.
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**

**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

---

**Table: EHP513 Specifications**

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*Refer to warnings and safety information on pages O-1 – D-16. 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

EHP504 High Pressure Petroleum Discharge

Construction:
Tube: NBR blend
Reinforcement: High-tensile synthetic textile and anti-static copper wire
Cover: NBR blend

Operating Temperature:
-35°C to +70°C
(-31°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 on pages O-1 – O-16. 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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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

*Product also available in GY=Gray and RD= Red

---

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*Product also available in GY=Gray and RD= Red

---

Refer to warnings and safety information on pages O-1 – D-16. 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:** Nitrile rubber (RMA Class A)
- **Reinforcement:** Double fiber braid
- **Cover:** Vinyl nitrile rubber

## Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

## Application:
- For fuel oil transfer for residential and/or commercial delivery

## Markets:
- Tank truck
- Petroleum refining
- Chemical processing
- Home delivery of fuel

## Type of Couplings:
- Reattachable
- Internally expanded permanent attached

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### H901 BOSTON BULLDOG™ Fuel Oil

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<td>mtr mm in</td>
<td>bar psi</td>
<td>bar psi</td>
<td>kg/m lbs/ft</td>
<td>mtr ft</td>
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<td>150 31 1.25</td>
<td>150 31,8 1.75</td>
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<td>100 38,1 2.00</td>
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Refer to warnings and safety information on pages O-1 – O-16.
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.
Notes
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- EHW019 & EHW020 THERMORUB™ Fire Fighting . . . . . . . J-7
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- H5751 & H5752 Chemical Booster . . . . . . . . . . . . . . . . . J-10

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- EHN004 Steel Mill Heavy Duty White Cooling Water Transfer . . . . . . . . . . . . . . . . . . J-13
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- H0616 BLACKCAT™ Corrugated Hot Tar & Asphalt . . . J-27
- EHK009 Asphalt S & D . . . . . . . . . . . . . . . . . . . . . . . . . . . J-28
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- EH066 Diesel Exhaust Fluid Dispensing . . . . . . . . . . . . J-30
- H969 Hydrocarbon Drain . . . . . . . . . . . . . . . . . . . . . . . . J-31
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- EHS501 Sewer Sweeper Vacuum . . . . . . . . . . . . . . . . . . . . . . J-34
**Fire Fighting**

**EHW018 Heavy Duty Fire Fighting Discharge**

- **Application:** Fire fighting vehicles: EN 1947:2002-1/CAT.I 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**

- **Application:** Fire fighting applications in fire reels
- **Tube:** Thermorub compound
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Thermorub compound
- **Temp:** -5°C to +90°C, (+23°F to +194°F)
- **Pressure:** 7,0-20,7 bar / 100-300 psi

**EHW019 & EHW020 THERMORUB™ Fire Fighting**

- **Application:** Fire fighting applications in fire reels
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber
- **Temp:** -40°C to +125°C, (-40°F to +257°F)
- **Pressure:** 6 bar / 85 psi

**EHW016 Fire Extinguisher**

- **Application:** Fire extinguishers
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber
- **Temp:** -20°C to +165°C, (-4°F to +329°F)
- **Pressure:** 20,7 bar / 300 psi

**EHG002 Carbon Dioxide Discharge**

- **Application:** Discharge of carbon dioxide
- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 103 bar / 1500 psi

**H5751 & H5752 Chemical Booster**

- **Application:** Pressure booster hose on fire fighting equipment
- **Tube:** Synthetic rubber
- **Reinforcement:** 2-textile braid
- **Cover:** Synthetic rubber
- **Temp:** -40°C to +82°C, (-40°F to +180°F)
- **Pressure:** 55 bar / 800 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 rubber and glass fiber
- **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 rubber and glass fiber
- **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:** Discharge of cooling water
- **Tube:** EPDM rubber and glass fiber
- **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

**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 and glass fiber
- **Reinforcement:** Ceramic coated EPDM rubber
- **Cover:** Ceramic coated EPDM rubber
- **Temp:** -40°C to +125°C, (-40°F to +257°F)
- **Pressure:** 6 bar / 85 psi

**EHN007 Steel Mill Fiberglass Steam Transfer**

- **Application:** Discharge of cooling water
- **Tube:** EPDM rubber and glass fiber
- **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 rubber and glass fiber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic 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)
- **Pressure:** 20.7 bar / 300 psi

**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**

**H0372 BLACKCAT™ Hot Tar & Asphalt**

- **Application:** Suction & discharge of tar and asphalt
- **Tube:** Nitrile
- **Reinforcement:** 2-ply fiberglass with helical wire
- **Cover:** Neoprene
- **Temp:** +177°C Intermittent, (+350°F) up to +400°F
- **Pressure:** 13.8 bar / 200 psi

**H0616 BLACKCAT™ Corrugated Hot Tar & Asphalt**

- **Application:** Suction & discharge of tar and asphalt
- **Tube:** Nitrile
- **Reinforcement:** 2-ply fiberglass with helical wire
- **Cover:** Corrugated neoprene
- **Temp:** +177°C Intermittent (+350°F) up to +400°F
- **Pressure:** 13.8 bar / 200 psi

**Specialized**

**EHK009 Asphalt S & D**

- **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

**H9603 Hot Tar Pumping**

- **Application:** Hot tar projects
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 2-wire braid
- **Cover:** Pin-pricked CPE
- **Temp:** +177°C Intermittent, (+350°F)
- **Pressure:** 17.2 bar / 250 psi

**EH066 Diesel Exhaust Fluid Dispensing**

- **Application:** Conveying diesel exhaust fluid
- **Tube:** Peroxide cured EPDM
- **Reinforcement:** Fiber braid with stainless steel anti-static wire
- **Cover:** Peroxide cured EPDM
- **Temp:** -40°C to +125°C, (-40°F to +257°F)
- **Pressure:** 21 bar / 300 psi

**H969 Hydrocarbon Drain**

- **Application:** Hydrocarbon drain service
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 2-wire braid
- **Cover:** Pin-pricked chlorinated polyethylene
- **Temp:** +177°C, (+350°F)
- **Pressure:** 21 bar / 300 psi

**H8811 Nitrogen**

- **Application:** Transfer of nitrogen at ambient temperatures
- **Tube:** Natural rubber
- **Reinforcement:** Synthetic textile
- **Cover:** Natural rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 21 bar / 300 psi

**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)
- **Pressure:** 18 bar / 265 psi

**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 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.

**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.
**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

**Heavy Duty Fire Fighting Discharge**
EN 1947:2002-1/CAT.II TYPE C-CLASS 1

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<tbody>
<tr>
<td>EHW018-08-</td>
<td>MXX 100</td>
<td>12,7 0.50</td>
<td>21,5 1.24</td>
<td>41,0 600</td>
<td>125 1800</td>
<td>64.2 0.32</td>
<td>0.22 40-61</td>
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<tr>
<td>EHW018-12-</td>
<td>MXX 100</td>
<td>19,0 0.75</td>
<td>32,5 1.28</td>
<td>41,0 600</td>
<td>125 1800</td>
<td>72.8 0.48</td>
<td>0.58 40-61</td>
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<tr>
<td>EHW018-16-</td>
<td>MXX 100</td>
<td>25,4 1.00</td>
<td>39,0 1.54</td>
<td>41,0 600</td>
<td>125 1800</td>
<td>87.0 0.72</td>
<td>0.48 40-61</td>
</tr>
<tr>
<td>EHW018-20-</td>
<td>MXX 100</td>
<td>31,8 1.25</td>
<td>45,0 1.77</td>
<td>41,0 600</td>
<td>125 1800</td>
<td>110 0.98</td>
<td>0.66 40-61</td>
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</tbody>
</table>
Specialty – Fire Fighting

**EHW017**

*Fire Fighting Discharge*
EN 1947:2002-1/ CAT.1 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<td>bar psi</td>
<td>mm in</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>675</td>
<td>120</td>
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<td>19,0</td>
<td>1.26</td>
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<td>46,0</td>
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<td>46,0</td>
<td>675</td>
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<td>1.73</td>
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<td>46,0</td>
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<td>280</td>
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Refer to warnings and safety information on pages 0-1 – 0-18.
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.
**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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<td>19 x 0.75</td>
<td>13.8 bar</td>
<td>41.0 bar</td>
<td>230 mm</td>
<td>0.39 kg/m</td>
<td>20-100 mtr</td>
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<td>EHW019-16RD-</td>
<td>25 x 1.00</td>
<td>13.8 bar</td>
<td>41.0 bar</td>
<td>300 mm</td>
<td>0.57 kg/m</td>
<td>20-100 mtr</td>
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<td>EHW019-20RD-</td>
<td>31 x 1.25</td>
<td>7.0 bar</td>
<td>41.0 bar</td>
<td>385 mm</td>
<td>0.91 kg/m</td>
<td>20-100 mtr</td>
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<table>
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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<td>12 x 0.50</td>
<td>20.7 bar</td>
<td>72.0 bar</td>
<td>200 mm</td>
<td>0.24 kg/m</td>
<td>20-100 mtr</td>
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<tr>
<td>EHW020-12RD-</td>
<td>19 x 0.75</td>
<td>20.7 bar</td>
<td>72.0 bar</td>
<td>230 mm</td>
<td>0.38 kg/m</td>
<td>20-100 mtr</td>
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<tr>
<td>EHW020-16RD-</td>
<td>25 x 1.00</td>
<td>20.7 bar</td>
<td>72.0 bar</td>
<td>300 mm</td>
<td>0.56 kg/m</td>
<td>20-100 mtr</td>
</tr>
</tbody>
</table>

* Product is also available in BK-Black

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Refer to warnings and safety information on pages O-1 – O-16.
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

---

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Weight</th>
<th>Length</th>
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<tbody>
<tr>
<td></td>
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<td>mtr</td>
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Refer to warnings and safety information on pages O-1 – O-16.
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 Master Catalog - Global E-HOIN-SS001-E  2014
Specialty – Fire Fighting

EHG002  Carbon Dioxide Discharge

Construction:
Tube: EPDM rubber
Reinforcement: High-tensile synthetic textile
Cover: EPDM 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 coupling selection and installation

<table>
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<th># Part No.</th>
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<th>Hose O.D.</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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.
## H5751 & H5752

### Chemical Booster

#### Construction:
- **Tube:** Synthetic rubber
- **Reinforcement:** 2 textile braid
- **Cover:** Synthetic rubber

#### Operating Temperature:
-40°C to +82°C
(-40°F to +180°F)

#### Application:
- For pressure booster hose on fire fighting equipment

#### Markets:
- Fire fighting

#### Type of Couplings:
- Spanner hole type
- Barway

*Contact coupling manufacturer for attachment procedure and other coupling recommendations*

---

### Chemical Booster Specifications

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*Product is available as a MTO—Make to Order*
Specialty  
Steel Mill

**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

---

### Construction Details
- 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

---

###  | Part No. | Hose I.D. | Hose O.D. | Max Oper Pressure | Burst Pressure | Weight | Length |
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</table>
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)

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>Hose O.D.</th>
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<th>Burst Pressure</th>
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Resistance ≤ 1 x 10⁸ Ω/m

Refer to warnings and safety information on pages O-1 – O-16. 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.
**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

### Application:
- For discharge of cooling water

### Markets:
- Steel mill  
- Foundries

### Type of Couplings:
Contact coupling manufacturer for coupling selection and installation

---

<table>
<thead>
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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
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Resistance ≤ 1 x 10⁶ Ω/m
EHN005

Steel Mill Medium Duty Cooling Water Transfer

Construction:
- Tube: EPDM rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Synthetic rubber and 2 glass fiber

Application:
- For cooling water systems in steel mills and foundries

Markets:
- Steel mill
- Foundries

Operating Temperature:
-40°C to +125°C
(-40°F to +257°F)

Type of Couplings:
Contact coupling manufacturer for coupling selection and installation

<table>
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<th>#</th>
<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 on pages 0-1 – 0-16.
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.
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

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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

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

<table>
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<tr>
<th>#</th>
<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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Refer to warnings and safety information on pages O-1 – O-16.
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.
### EHW006

**Heavy Duty Cooling Water Transfer**

(Outside Temperature up to 600°C)

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<th>Part No.</th>
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<th>Burst Pressure</th>
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**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

Refer to warnings and safety information on pages O-1 – O-16. 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

**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

**Refer to warnings and safety information on pages O-1 – O-16. 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.

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<th>#</th>
<th>Part No.</th>
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<th>Hose O.D.</th>
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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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*Product also available in GN-Green and BU-Blue
**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

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<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
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* Product also available in BK-Black, BU-Blue, and OR-Orange
**EHW503**

**Welding Liquid Propane Gas**

**ISO 3821**

**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

EATON WELDING TORCH 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

Refer to warnings and safety information on pages O-1 – O-16.
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

**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

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Refer to warnings and safety information on pages O-1 – O-16.

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, 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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**Industrial Welding Twinline (Green & Red)**
ISO 3821

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**Welding Rubberized Electrical Protection**

**Construction:**
- **Tube:** Rubberized textile fabric
- **Cover:** Synthetic rubber

**Application:**
- For cable protection in industrial applications
- In-plant service
- Welding

**Operating Temperature:**
-30°C to +80°C
(-22°F to +176°F)

**Type of Couplings:**
Contact coupling manufacturer for coupling selection and installation

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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

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**Refer to warnings and safety information on pages O-1 – O-16. 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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**Specialty – Road Construction**

**H0372** BLACKCAT™ Hot Tar & Asphalt

**Construction:**
- **Tube:** Nitrile
- **Reinforcement:** 2-ply fiberglass with helical wire
- **Cover:** Neoprene

**Operating Temperature:**
+177°C Intermittent (+350°F)
Handle intermittent temperature of hot tar and asphalt up to +400°F

**Application:**
- For suction & 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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<td>200</td>
<td>55,0</td>
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</table>

Product available in 50 ft. lengths. ** Product available in 150 ft. lengths.

Refer to warnings and safety information on pages O-1 – O-16.
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.
H0616  \textbf{BLACKCAT™ Corrugated Hot Tar & Asphalt}

\textbf{Construction:}\n\begin{itemize}
\item Tube: Nitrile
\item Reinforcement: 2-ply fiberglass with helical wire
\item Cover: Corrugated neoprene
\end{itemize}

\textbf{Operating Temperature:}\n+177°C Intermittent (+350°F) \hspace{1cm}
Handle intermittent temperature of hot tar and asphalt up to +400°F

\textbf{Application:}\n\begin{itemize}
\item For suction & discharge of tar and asphalt
\end{itemize}

\textbf{Markets:}\n\begin{itemize}
\item Road construction
\item Roof construction
\end{itemize}

\textbf{Type of Couplings:}\n\begin{itemize}
\item Cam and groove
\item Combination nipple
\end{itemize}

Contact coupling manufacturer for attachment procedure and other coupling recommendations

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline
\textbf{Part No.} & \textbf{Hose I.D.} & \textbf{Hose O.D.} & \textbf{Max Oper Pressure} & \textbf{Burst Pressure} & \textbf{Minimum Bend Radius} & \textbf{Vacuum} & \textbf{Weight} & \textbf{Length} \\
\hline
H061632- & 50 & 50,8 & 2.00 & 76,2 & 3.00 & 13,8 & 200 & 55 & 800 & 127,0 & 5.00 & 94,8 & 28 & 3,48 & 2.34 & 50 \\
H061632- & 100 & 50,8 & 2.00 & 76,2 & 3.00 & 13,8 & 200 & 55 & 800 & 127,0 & 5.00 & 94,8 & 28 & 3,48 & 2.34 & 100 \\
\hline
\end{tabular}
### Construction:
**Tube:** Synthetic rubber  
**Reinforcement:** High-tensile synthetic textile dual helical wire with anti-static copper wire  
**Cover:** Synthetic rubber

### 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

### 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)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
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</table>
Specialty
Road Construction

H9603

Hot Tar Pumping

Construction:
Tube: Nitrile (RMA Class A)
Reinforcement: 2-wire braid
Cover: Pin-pricked CPE

Operating Temperature:
+177°C Intermittent (+350°F)

Application:
• For hot tar projects

Markets:
• Road construction
• Roof construction

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 Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<td>17,2</td>
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</tbody>
</table>

Refer to warnings and safety information on pages O-1 – O-16. 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

Specialized

**EH066**

**Diesel Exhaust Fluid Dispensing**

**Construction:**
- Tube: Peroxide cured EPDM
- Reinforcement: Fiber braid with stainless steel anti-static wire
- Cover: Peroxide cured EPDM

**Operating Temperature:**
-40°C to +125°C
(-40°F to +257°F)

**Application:**
- For conveying diesel exhaust fluid

**Markets:**
- Tank truck

**Type of Couplings:**
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 Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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<th>Length</th>
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<td>mm in bar psi</td>
<td>mm in</td>
<td>bar psi</td>
<td>mm in</td>
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Refer to warnings and safety information on pages O-1 – O-16.
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:** Nitrile (RMA Class A)
- **Reinforcement:** 2-wire braid
- **Cover:** Pin-pricked chlorinated polyethylene

**Operating Temperature:**
+177°C
(+350°F)

**Application:**
- For hydrocarbon drain service

**Markets:**
- Petroleum

**Type of Couplings:**
- Boss Male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Hydrocarbon Drain

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
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**Refer to warnings and safety information on pages O-1 – O-16.**

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.
**H8811 Nitrogen**

**Construction:**
- **Tube:** Nitrile
- **Reinforcement:** 4-spiral fiber
- **Cover:** Pin-pricked neoprene

**Operating Temperature:** -40°C to 82°C (-40°F to 180°F)

**Application:**
- For transfer of nitrogen at ambient temperatures

**Markets:**
- Refineries
- Petroleum industry

**Type of Couplings:**
- “U” Series
- Barbed inserts
- Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
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</table>

Refer to warnings and safety information on pages O-1 – O-16. 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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<td>mm in</td>
<td>kg/m</td>
<td>lbs/ft</td>
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<td>10.00 6.72</td>
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</tbody>
</table>
Specialty – Specialized

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

<table>
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<th>#</th>
<th>Part No.</th>
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<td>mm in</td>
<td>cm bar psi psi</td>
<td>mm in kPa in/Hg kg/m lbs/ft</td>
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Steam

Steam Hose
EH084 STEAM SLAYER™............................................. K-6
EH080 & EH081 STEAM SLAYER™.............................. K-7
H0084 Concord Standard ........................................... K-8
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Steam Hose

**EH084 STEAM SLAYER™**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: Special chlorobutyl blend

*Reinforcement*: 2-wire braid

*Cover*: Pin-pricked EPDM

*Temp*: -40°C to +208°C, (-40°F to +407°F) For superheated steam, +232°C (+450°F)

*Pressure*: 17,2 bar / 250 psi

**EH080 & EH081 STEAM SLAYER™**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: Special chlorobutyl blend

*Reinforcement*: 2-wire braid

*Cover*: Pin-pricked EPDM

*Temp*: -40°C to +208°C, (-40°F to +407°F) For superheated steam, +232°C (+450°F)

*Pressure*: 17,2 bar / 250 psi

**H084 Concord Standard**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: Special chlorobutyl blend

*Reinforcement*: 2-wire braid with stainless steel anti-static wire

*Cover*: Pin-pricked EPDM

*Temp*: Maximum Operating: +232°C (+450°F)

*Pressure*: 17,2 bar / 250 psi

**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 +406°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 synthetic rubber

*Temp*: -40°C to +208°C (-40°F to +406°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 +406°F)

*Pressure*: 18 bar / 261 psi

**H9568 Concord 250 Steam**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: EPDM

*Reinforcement*: 2-wire braid

*Cover*: Pin-pricked EPDM

*Temp*: Maximum Operating: +232°C (+450°F)

*Pressure*: 17,2 bar / 250 psi

**H9682 Concord Steam Oil-Resistant**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: EPDM

*Reinforcement*: 2-wire braid

*Cover*: Pin-pricked, oil-resistant compound

*Temp*: Maximum Operating: +232°C (+450°F)

*Pressure*: 17,2 bar / 250 psi

**EHS001 Industrial Steam, BS 5342 Type 2 Class A**

*Application*: Transfer of steam for processing products & cleaning equipment

*Tube*: EPM

*Reinforcement*: High-tensile steel wire

*Cover*: Pin-pricked EPDM

*Temp*: Maximum Operating: +197°C (+386°F)

*Pressure*: 13,8 bar / 200 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 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

**H969 Hydrocarbon Drain**

*Application*: Hydrocarbon drain service

*Tube*: Nitrile (RMA Class A)

*Reinforcement*: 2-wire braid

*Cover*: CPE

*Temp*: Maximum Operating: +176°C (+350°F)

*Pressure*: 20,7 bar / 300 psi
Steam
Introduction and Safety Information

**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.

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**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.
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.
Steam
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.
Steam Hose

**EH084 STEAM SLAYER™**

**Construction:**
- Tube: Special chlorobutyl blend
- Reinforcement: 2-wire braid
- Cover: Pin-pricked EPDM

**Operating Temperature:**
-40°C to +208°C
(-40°F to +407°F)
For superheated steam
+232°C (+450°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:**
- Eaton EJ series

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 |
|-------|----------|-----------|-----------|------------------------|----------------|--------|--------|--------|
|       |          | mm       | mm       | bar | psi | bar | psi | kg/m | lbs/ft | mtr | ft |
|       | EH08408  | 12       | 12,7     | 0,50 | 27,7 | 1,09 | 17,2 | 250  | 172  | 2500 | 0,73 | 0,49 | 15,2 | 50    |
|       | EH08412  | 19       | 19,0     | 0,75 | 33,5 | 1,32 | 17,2 | 250  | 172  | 2500 | 0,94 | 0,63 | 15,2 | 50    |
|       | EH08416  | 25       | 25,4     | 1,00 | 40,4 | 1,59 | 17,2 | 250  | 172  | 2500 | 1,28 | 0,86 | 15,2 | 50    |
## EH080 & EH081

**STEAM SLAYER™**

### Construction:
- **Tube:** Special chlorobutyl blend
- **Reinforcement:** 2-wire braid
- **Cover:** Pin-pricked EPDM

### Operating Temperature:
- -40°C to +208°C (-40°F to +407°F)
  - For superheated steam +232°C (+450°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:
- Eaton EJ series

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

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| EH08112  | 19  | 19.0 | 0.75 | 33.5 | 1.32 | 17.2 | 250 | 172 | 2500 | 0.94 | 0.63 | 15.2 | 50 |
| EH08116  | 25  | 25.4 | 1.00 | 40.4 | 1.59 | 17.2 | 250 | 172 | 2500 | 1.28 | 0.86 | 15.2 | 50 |
Steam
Steam Hose

H0084 Concord Standard

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Refer to warnings and safety information on pages O-1 – O-16. 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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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:**
- Eaton EJ series
- Ground joint female
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Part No.** | Hose I.D. | Hose O.D. | Max Oper Pressure | Burst Pressure | Minimum Bend Radius | Weight | Length |
--- | --- | --- | --- | --- | --- | --- | --- |
EHS005-08- | MXX 50 | 12 | 0.50 | 24.0 | 0.94 | 17.0 | 247 | 170 | 2465 | 70 | 0.49 | 0.32 | 40 | 50 |
EHS005-10- | MXX 50 | 16 | 0.62 | 27.0 | 1.08 | 17.0 | 247 | 170 | 2465 | 80 | 0.56 | 0.38 | 40 | 50 |
EHS005-12- | MXX 50 | 19 | 0.75 | 32.0 | 1.26 | 17.0 | 247 | 170 | 2465 | 100 | 0.72 | 0.48 | 40 | 50 |
EHS005-16- | MXX 50 | 25 | 1.00 | 38.5 | 1.52 | 17.0 | 247 | 170 | 2465 | 140 | 0.96 | 0.65 | 40 | 50 |
EHS005-20- | MXX 50 | 31 | 1.25 | 46.0 | 1.81 | 17.0 | 247 | 170 | 2465 | 200 | 1.27 | 0.85 | 40 | 50 |
EHS005-24- | MXX 50 | 38 | 1.50 | 52.0 | 2.05 | 17.0 | 247 | 170 | 2465 | 250 | 1.58 | 1.06 | 40 | 50 |
EHS005-32- | MXX 50 | 51 | 2.00 | 67.0 | 2.64 | 17.0 | 247 | 170 | 2465 | 350 | 2.37 | 1.59 | 40 | 50 |
EHS005-40- | MXX 50 | 60 | 2.50 | 79.5 | 3.13 | 17.0 | 247 | 170 | 2465 | 450 | 2.97 | 2.00 | 40 | 50 |
EHS005-48- | MXX 50 | 80 | 3.00 | 93.0 | 3.66 | 17.0 | 247 | 170 | 2465 | 550 | 3.88 | 2.61 | 40 | 50 |
EHS005-64- | MXX 50 | 102 | 4.00 | 124.0 | 4.88 | 17.0 | 247 | 170 | 2465 | 750 | 6.60 | 4.44 | 40 | 50 |

*Product available in BK-Black and RD-Red*
Steam

Steam Hose

**EHS007**

*Steel Wire Reinforced Steam*

ISO 61354-2B 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:**
- Eaton EJ series
- Ground joint
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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*Available colors  BK-Black and RD-Red

Refer to warnings and safety information on pages 0-1 – 0-16. 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.
### 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:**
- Eaton EJ series
- Ground joint female
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations

*Available colors BK-Black and RD-Red

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Eaton Steam Hose

**H9568 Concord 250 Steam**

**Construction:**
- Tube: EPDM
- Reinforcement: 2-wire braid
- Cover: Pin-pricked EPDM

**Operating Temperature:**
- Maximum Operating Temperature: +232°C (+450°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:**
- Eaton EJ Series

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>
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**Also product available in RD-Red for select items**

Refer to warnings and safety information on pages O-1 – O-16. 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

**H9682**

**Concord Steam Oil-Resistant**

**Construction:**
- Tube: EPDM
- Reinforcement: 2-wire braid
- Cover: Pin-pricked, oil-resistant compound

**Operating Temperature:**
Maximum Operating +232°C (+450°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:**
- Eaton EJ Series

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>
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* Items sold as MTO—made to order

Refer to warnings and safety information on pages O-1 – O-16. 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

### EHS001

**Industrial Steam**

BS 5342 Type 2 Class A

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<td>Cover:</td>
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**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:**
- Eaton EJ series
- Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations

<table>
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Refer to warnings and safety information on pages O-1 – O-16. 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

H6027

200 L. L. Steam

Construction:
- Tube: EPDM
- Reinforcement: 1-wire braid
- Cover: Pin-pricked EPDM

Operating Temperature:
Maximum Operating +197°C (+386°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

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<th>Part No.</th>
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Refer to warnings and safety information on pages O-1 – O-16.
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.
# Textile Steam

## EHS004

**ISO 6134-1B—Oil Resistant Cover**

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Steam Hose

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:**
- Eaton EJ series
- Boss male
- Ground joint female

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>
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Steam
Steam Hose

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

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<th>#</th>
<th>Part No.</th>
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<td>51</td>
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<td>102</td>
<td>101.6</td>
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</table>

Refer to warnings and safety information on pages O-1 – O-16. 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

### H969 Hydrocarbon Drain

#### Construction:
- **Tube:** Nitrile (RMA Class A)
- **Reinforcement:** 2-wire braid
- **Cover:** Pin-pricked CPE

#### Application:
- **For hydrocarbon drain service**

#### Operating Temperature:
- **Maximum Operating Temperature:** +176°C (+350°F)

#### 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.

#### Specifications:

<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>
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<tr>
<td>H969012</td>
<td>DN 19 mm</td>
<td>mm 19.0 0.75 in</td>
<td>bar 20.7 psi</td>
<td>207 bar</td>
<td>300 psi</td>
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<tr>
<td>H969012-25</td>
<td>DN 19 mm</td>
<td>mm 19.0 0.75 in</td>
<td>bar 20.7 psi</td>
<td>207 bar</td>
<td>300 psi</td>
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Steam

EJ Series Crimp Couplings

Wing Nut Swivel

| Ground Joint |

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hose I.D.</th>
<th>Thread Size</th>
<th>DIM A</th>
<th>Hole Dia</th>
<th>DIM D</th>
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<tr>
<td>EJ5323-0808S</td>
<td>12.7</td>
<td>0.50</td>
<td>1 1/2 – 11 1/2</td>
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<td>2.85</td>
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<tr>
<td>EJ5323-1212S</td>
<td>19.1</td>
<td>0.75</td>
<td>1 1/2 – 11 1/2</td>
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<td>EJ5323-1616S</td>
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<td>1 1/2 – 11 1/2</td>
<td>72.3</td>
<td>2.85</td>
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Male Pipe (NPTF) Rigid

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<thead>
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<th>Part Number</th>
<th>Hose I.D.</th>
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<th>Hex E</th>
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<td>1.00</td>
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Female Spud

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<th>Part Number</th>
<th>Hose I.D.</th>
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<th>Hole Dia</th>
<th>Hex E</th>
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<tr>
<td>FF91058-08S</td>
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<td>FF91058-16S</td>
<td>23.9</td>
<td>1.00</td>
<td>1 1/2 – 11 1/2</td>
<td>30.1</td>
<td>1.185</td>
<td>20.6</td>
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</tbody>
</table>

*NOTE: EJ Series couplings were specifically designed and tested for use with Eaton hoses and wall thicknesses, use on other hose is not recommended.*

Assembly Instructions

Step 1
Cut the hose square to the required length using a cut-off wheel. Clean the cut end and hose bore.

Step 2
Mark the end of the hose with the correct insertion depth by size. See chart.

Step 3
Lubricate the I.D. of the hose with a water-based lubricant such as P-80. You can also utilize a 5% dish soap/95% water mixture.

Step 4
Insert the fitting into the hose. Twist the fitting while inserting to help with spreading the lubricant and easier insertion.

Steam applications are hazardous to both personnel and equipment. These hazards are due to the high pressures and temperatures of steam conveyance. Hot water, low pressure steam and high pressure steam can cause severe scalding or bodily injury. Operators should use extreme caution to avoid burns. Eaton understands the importance of utilizing quality products that provide maximum safety, especially when it comes to steam application. safety always comes first.

Be sure the fitting is fully inserted by checking the end of the socket is aligned with the insertion depth mark on the hose.

Step 5
Crimp the hose to the specifications found in chart. Measure the crimp diameter in 3 locations utilizing calipers and take the average to verify that the crimp is within the specified range. Also verify that the insertion depth mark on the hose is still at the end of the socket and that the hose has not pulled off of the fitting during the crimping process.

Hose Dash Size | Fitting Insertion Depth | Crimp Diameter “B” | Crimp Position “C” |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>±0.12 mm</td>
<td>±0.005 in</td>
<td>±0.75 mm</td>
<td>±0.030 in</td>
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Steam Slayer Hose: EH080, EH081, EH084

-08 34.7 mm 30.23 mm 32.39 mm
1.37 in 1.190 in 1.275 in

-12 35.5 mm 30.23 mm 32.39 mm
1.40 in 1.415 in 1.275 in

-16 34.7 mm 41.40 mm 32.39 mm
1.37 in 1.630 in 1.275 in

Concord 250 Hose: H9568

-08 34.7 mm 30.23 mm 32.39 mm
1.37 in 1.190 in 1.275 in

-12 35.5 mm 30.23 mm 32.39 mm
1.40 in 1.415 in 1.275 in

-16 34.7 mm 41.78 mm 32.39 mm
1.37 in 1.645 in 1.275 in

None of the hoses listed are to be used as a pressure washer hose.

MTO (Made-to-Order) – Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.
Steam
Eaton Steam Hose Assemblies

FK6496 & FK6500 Eaton Steam Hose Assemblies

Losses from a leaking steam system can cost in many ways. Personal safety, procurement, maintenance, and premature product replacement can all affect the bottom line. Eaton’s new steam hose assembly system with our STEAM SLAYER hose and the EJ Series fitting offers a matched engineered assembly that was tested for over 2000 hours without any leakage.

This new matched assembly will also reduce the affects of static electric discharge. These new assemblies not only reduce maintenance cost, but also reduce operator’s exposure to hazardous situations. Be sure to choose a matched hose and fitting engineered system designed specifically for steam applications.

50’ Steam Hose Assemblies

Base # FK6496

A – Male Pipe

B – Wing Nut Swivel Ground Joint

Base # FK6500

A – Male Pipe

B – Wing Nut Swivel Ground Joint

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hose I.D. (mm)</th>
<th>Hose I.D. (in)</th>
<th>End “A” Male Pipe</th>
<th>End “B” Wing Nut Female Swivel</th>
<th>Hose</th>
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<tr>
<td>FK6496HHH6000</td>
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<td>EH08408 Steam Slayer</td>
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<td>FK6496KKK6000</td>
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<td>H956816 Concord 250</td>
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- H0364 OTTER™ Water Suction & Discharge . . . . . . . L-7
- EHW014 Channeled Water Suction & Discharge . . . . . . L-8
- EHW013 Corrugated Water Suction & Discharge . . . . . . L-9
- EHW005 Flat Corrugated Water Suction & Discharge . . L-10
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- EHW011 Low Pressure Water Discharge . . . . . . . . . . . . L-19
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- EHW010 Water Discharge . . . . . . . . . . . . . . . . . . . . . . L-21
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Water

Suction & Discharge

**EHW030 OTTER™ PLUS Water Suction & Discharge**
- **Application:** S & D of water, mud and slurries; ag fertilizers, salt water (brine)
- **Tube:** Synthetic rubber
- **Reinforcement:** EPDM
- **Cover:** EPDM
- **Temp:** -40°C to +120°C, (-40°F to +248°F)
- **Pressure:** 17.2-20.7 bar / 250-300 psi

**EHW009 Heavy Duty Water Suction & Discharge**
- **Application:** Suction and discharge of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and dual steel helical wire
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 17.2 bar / 250 psi

**H0364 OTTER™ Water Suction & Discharge**
- **Application:** S & D of water, mud and slurries; ag fertilizers, salt water (brine)
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and dual steel helical wire
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 8.5-10.5 bar / 125-150 psi

**EHW014 Channeled Water Suction & Discharge**
- **Application:** Pumping, suction and discharge, and convey of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and helical steel wire
- **Cover:** Channeled synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 8.5-10.5 bar / 125-150 psi

**EHW013 Corrugated Water Suction & Discharge**
- **Application:** S & D agricultural, industrial, construction of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Corrugated synthetic rubber with cuffed ends
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 3.5 bar / 50 psi

**EHW005 Flat Corrugated Water Suction & Discharge**
- **Application:** Suction and discharge of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10.5 bar / 150 psi

**EH360 Water Suction & Discharge**
- **Application:** S & D, pumping of water, mud and slurries; transfer salt water
- **Tube:** Synthetic rubber
- **Reinforcement:** Textile and a single or dual steel helical wire
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10.5 bar / 150 psi

**EHT005 Medium Duty Suction & Discharge**
- **Application:** Medium-duty suction of water, salt water, light chemicals
- **Tube:** PVC spiral
- **Cover:** PVC
- **Temp:** -5°C to +60°C, (+23°F to +140°F)
- **Pressure:** 9.0-32.0 bar / 131-464 psi

**Discharge**

**EHW004 High Pressure Layflat Water Discharge**
- **Application:** Discharge of water in agricultural and industrial applications
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 20.7 bar / 300 psi

**EHW029 OTTER™ Layflat Water Discharge**
- **Application:** Water discharge
- **Tube:** EPDM
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** EPDM
- **Temp:** -40°C to +120°C, (-40°F to +248°F)
- **Pressure:** 10.5 bar / 150 psi

**EHW007 Soft Wall Water Discharge**
- **Application:** Water discharge
- **Tube:** NBR blend
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** CR blend
- **Temp:** -35°C to +80°C, (-31°F to +176°F)
- **Pressure:** 7.0-10.5 bar / 100-150 psi

**EHW003 Medium Duty Water Discharge**
- **Application:** Discharge of water in agricultural and industrial applications
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10.5 bar / 150 psi

**EHW001 Layflat Water Discharge**
- **Application:** Discharge of water in agricultural and industrial applications
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10.5 bar / 150 psi

**H0307 and H0379 LEADER Water Discharge**
- **Application:** Discharge of water
- **Tube:** EPDM
- **Reinforcement:** 2-ply, 2 or 4 spiral fiber
- **Cover:** EPDM
- **Temp:** -23°C to +60°C, (+10°F to +150°F)
- **Pressure:** 8.5-10.5 bar / 125-150 psi

**EHW011 Low Pressure Water Discharge**
- **Application:** Discharge of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 7.0 bar / 100 psi

**EHW012 Low Pressure Layflat Water Discharge**
- **Application:** Discharge of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 5 bar / 75 psi

**EHW010 Water Discharge**
- **Application:** Discharge of water
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Synthetic rubber
- **Temp:** -25°C to +70°C, (-13°F to +158°F)
- **Pressure:** 10.5 bar / 150 psi

**EHT305 & EHT306 Flame Resistant MSHA Flat Delivery**
- **Application:** Mines and quarries
- **Tube:** Flame resistant PVC/NBR lining
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame resistant PVC
- **Temp:** -5°C to +60°C, (+23°F to +140°F)
- **Pressure:** 10-14 bar / 145-203 psi
EHT303 Medium Duty Discharge

**Application:** Discharge of water in agriculture and industry  
**Tube:** PVC/NBR lining  
**Reinforcement:** High-tensile synthetic textile  
**Cover:** PVC  
**Temp:** -40°C to +70°C, (-40°F to +158°F)  
**Pressure:** 4 bar / 60 psi

EHT301 Light Duty Discharge

**Application:** Discharge of water in agriculture and industry  
**Tube:** PVC lining  
**Reinforcement:** High-tensile synthetic textile  
**Cover:** PVC  
**Temp:** -40°C to +70°C, (-40°F to +158°F)  
**Pressure:** 4 bar / 60 psi

**Hot Water**

**EHW027 Channeled Hot Water Suction & Discharge**

**Application:** Suction and discharge of hot water in industrial applications  
**Tube:** EPDM rubber  
**Reinforcement:** High-tensile synthetic textile and steel helical wire  
**Cover:** Channeled EPDM rubber  
**Temp:** -40°C to +125°C, (-40°F to +257°F)  
**Pressure:** 10,5 bar / 150 psi

**EHW026 Flat Corrugated Hot Water Suction & Discharge**

**Application:** Suction and discharge of hot water in industrial applications  
**Tube:** EPDM rubber  
**Reinforcement:** High-tensile synthetic textile and steel helical wire  
**Cover:** Flat corrugated EPDM rubber  
**Temp:** -40°C to +125°C, (-40°F to +257°F)  
**Pressure:** 10,5 bar / 150 psi

**EHW025 Corrugated Hot Water Suction & Discharge**

**Application:** Suction and discharge of hot water in industrial applications  
**Tube:** EPDM rubber  
**Reinforcement:** High-tensile synthetic textile and steel helical wire  
**Cover:** Corrugated EPDM rubber  
**Temp:** -40°C to +125°C, (-40°F to +257°F)  
**Pressure:** 10,5 bar / 150 psi

**EHW024 Hot Water Suction & Discharge**

**Application:** Suction and discharge of hot water in industrial applications  
**Tube:** EPDM rubber  
**Reinforcement:** High-tensile synthetic textile and steel helical wire  
**Cover:** EPDM rubber  
**Temp:** -40°C to +125°C, (-40°F to +257°F)  
**Pressure:** 10,5 bar / 150 psi

**EHW023 Hot Water Discharge**

**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

**Specialty**

**H1196 ROYALFLEX™ Water**

**Application:** Transfer of water, liquid, diluted fertilizers and pesticides; pumping, S & D of water and slurries  
**Tube:** Thermoplastic vinyl nitrile  
**Reinforcement:** 100% polyester and helical wire  
**Cover:** Thermoplastic vinyl nitrile  
**Temp:** -20°C to +82°C, (-20°F to +180°F)  
**Pressure:** 20,7 bar / 300 psi

**EHW028 Heavy Duty MSHA Mine Spray**

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

**H345 Pressure Washer**

**Application:** High pressure cleaning and degreasing  
**Tube:** Nitrile (RMA Class A)  
**Reinforcement:** 1-braid wire  
**Cover:** Vinyl  
**Temp:** -18°C to +93°C, (0°F to +200°F)  
**Pressure:** 207 bar / 3000 psi

**EHW008 Tank Cleaning**

**Application:** Tank cleaning applications  
**Tube:** EPDM rubber  
**Reinforcement:** High-tensile synthetic textile and dual anti-static copper wire  
**Cover:** EPDM rubber  
**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 Heavy Duty 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 +80°C, (-40°F to +176°F)  
**Pressure:** 28 bar / 400 psi

**Sewer Cleaning**

**FC701 Eaton GATOR™ Hose**

**Application:** High-pressure sewer cleaning  
**Tube:** Elastomer  
**Reinforcement:** Single braid high-textile  
**Cover:** Ethylene-based polyurethane  
**Temp:** -40°C to +66°C, (-40°F to +150°F)  
**Pressure:** 172 bar / 2,500 psi

**FC702 Eaton GATOR™ Hose**

**Application:** High-pressure sewer cleaning  
**Tube:** Elastomer  
**Reinforcement:** Single braid high-textile  
**Cover:** Ethylene-based polyurethane  
**Temp:** -40°C to +66°C, (-40°F to +150°F)  
**Pressure:** 207 bar / 3,000 psi

**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

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.

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.

Water Suction and Discharge Hose Safety Information

Important!

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.
Water
Suction & Discharge

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

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<th>Hose O.D.</th>
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# 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 on pages O-1 – O-16. 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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**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

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*Additional lengths available on select sizes*
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 on pages D-1 – D-16. 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**

---

**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

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

**Applications:**
- For water suction and discharge in agricultural, industrial and construction

**Markets:**
- Construction
- Agriculture
- 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 on pages O-1 – O-16. 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

**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

### Application:
- For suction and discharge of water

### Markets:
- Construction
- Industrial
- Agricultural

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

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

### Table:

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Refer to warnings and safety information on pages O-1 – O-16. 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

EH360

Water Suction & Discharge

Construction:
Tube: Synthetic rubber
Reinforcement: Textile and a single steel helical wire with a dual steel helical wire on 8.00”, 10.00” and 12.00”
Cover: Abrasion and weather resistant synthetic rubber

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

Application:
• Pumping, suction and discharge of water, mud and slurries
• Convey water
• 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>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
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Refer to warnings and safety information on pages O-1 – O-16.
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

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

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<th>Part No.</th>
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* Product also available in CL-Clear, GY-Gray, OG-Olive Green

Refer to warnings and safety information on pages O-1 – O-16. 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.
## EHW004

**High Pressure 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)

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**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 on pages O-1 – O-16. 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.
## 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.

### Specifications

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<th>Part No.</th>
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<th>Hose O.D. mm in</th>
<th>Max Oper Pressure bar psi</th>
<th>Burst Pressure bar psi</th>
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**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.

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### EHW007 Soft Wall Water Discharge

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<th>Part No.</th>
<th>Hose I.D.</th>
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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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**Construction:**
- Tube: Synthetic rubber
- Reinforcement: High-tensile synthetic textile
- Cover: Weather and ozone resistant synthetic rubber

**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.
## 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

### Table

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<th>Part No.</th>
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### H0307 and H0379 LEADER Water Discharge

**Construction:**
- Tube: EPDM
- Reinforcement: 2-ply, 2 or 4-spiral fiber
- Cover: EPDM

**Operating Temperature:**
-23°C to +66°C
- (-10°F to +150°F)

**Application:**
- For water discharge

**Markets:**
- Mining
- Construction
- Equipment rental
- Ship building
- Tank truck

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

**Water Discharge**

Refer to warnings and safety information on pages 0-1 – 0-18. 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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## EHW011

### Low Pressure Water Discharge

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Product also available in red, use RD when ordering.

### Construction:
- **Tube:** Synthetic rubber
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Weather and ozone resistant synthetic rubber

### 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

Refer to warnings and safety information on pages O-1 – O-16. 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

EHW012 Low Pressure Layflat Water Discharge

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<th>Burst Pressure</th>
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**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 water discharge

**Markets:**
- Construction
- Industrial
- Agriculture

**Type of Couplings:**
- Shank type male x female
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations.
**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

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<th>Hose I.D.</th>
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Refer to warnings and safety information on pages O-1 – O-16.
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.
**EHT305 & EHT306**

**Flame Resistant MSHA Flat Delivery**

MSHA IC-26110

### Construction:
- **Tube:** Flame resistant PVC/NBR lining
- **Reinforcement:** High-tensile synthetic textile
- **Cover:** Flame resistant PVC

### Operating Temperature:
-5°C to +60°C
(+23°F to +140°F)

### Application:
- Dewatering in mines and quarries

### Markets:
- Mining

### Type of Couplings:
- Cam and groove
- Combination nipples

Contact coupling manufacturer for attachment procedure and other coupling recommendations

### Part Number and Specifications

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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

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<th>Burst Pressure</th>
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### EHT301

**Light Duty Discharge**

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

- **Application:**
  - Light duty discharge of water in agriculture and industry

- **Operating Temperature:**
  - -5°C to +60°C (+23°F to +140°F)

- **Markets:**
  - Agriculture
  - Industry

- **Type of Couplings:**
  - Cam and groove
  - Combination nipples

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>Max Oper Pressure</th>
<th>Burst Pressure</th>
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**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

---

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<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
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Water

Hot Water

**EHW026**

Flat Corrugated Hot Water Suction & Discharge

**Construction:**

- **Tube:** EPDM rubber
- **Reinforcement:** High-tensile synthetic textile and steel helical wire
- **Cover:** Flat corrugated 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

---

### Part No. Specifications

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to warnings and safety information on pages 0-1 – 0-16. 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.
**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)

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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 and steel helical wire
Cover: 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

---

**Part No.** | **Hose I.D.** | **Hose O.D.** | **Max Oper Pressure** | **Burst Pressure** | **Minimum Bend Radius** | **Vacuum** | **Weight** | **Length**
--- | --- | --- | --- | --- | --- | --- | --- | ---
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EHW024-16- | MXX 100 | 25 | 25.4 | 1.00 | 34 | 1.34 | 10.5 | 150 | 31 | 450 | 95 | 3.74 | 94.8 | 28 | 0.61 | 0.41 | 40-61 | 100
EHW024-20- | MXX 100 | 31 | 31.8 | 1.25 | 42 | 1.65 | 10.5 | 150 | 31 | 450 | 125 | 4.92 | 94.8 | 28 | 0.96 | 0.65 | 40-61 | 100
EHW024-24- | MXX 100 | 38 | 38.1 | 1.50 | 48 | 1.89 | 10.5 | 150 | 31 | 450 | 150 | 5.91 | 94.8 | 28 | 1.13 | 0.76 | 40-61 | 100
EHW024-32- | MXX 100 | 51 | 50.8 | 2.00 | 62 | 2.44 | 10.5 | 150 | 31 | 450 | 215 | 8.46 | 94.8 | 28 | 1.69 | 1.14 | 40-61 | 100
EHW024-40- | MXX 100 | 60 | 63.5 | 2.50 | 75 | 2.95 | 10.5 | 150 | 31 | 450 | 280 | 11.02 | 94.8 | 28 | 2.07 | 1.39 | 40-61 | 100
EHW024-48- | MXX 100 | 80 | 76.2 | 3.00 | 89 | 3.50 | 10.5 | 150 | 31 | 450 | 350 | 13.78 | 94.8 | 28 | 2.82 | 1.89 | 40-61 | 100
EHW024-64- | MXX 100 | 102 | 101.6 | 4.00 | 115 | 4.53 | 10.5 | 150 | 31 | 450 | 490 | 19.29 | 94.8 | 28 | 3.80 | 2.55 | 40-61 | 100

---

Refer to warnings and safety information on pages 0-1 – 0-18.
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:**
- For delivery of hot water in industrial applications

**Markets:**
- Automotive
- Industrial

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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

**Part No.**

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<tr>
<th>#</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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:* Thermoplastic vinyl nitrile
*Reinforcement:* 100% polyester and helical wire
*Cover:* Thermoplastic vinyl nitrile

**Operating Temperature:**
-29°C to +82°C
(-20°F to +180°F)

**Application:**
- Transfer of water, liquid diluted fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries

**Markets:**
- Petroleum industry
- Oil and gas exploration
- Tank trucks
- Waste hauling
- Batch plants

**Type of Couplings:**
- Male NPT
- Cam and groove

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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### ROYALFLEX™ Water

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</table>

* Additional lengths available

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*Refer to warnings and safety information on pages O-1 – O-16. 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:** Oil-mist resistant NBR blend
- **Reinforcement:** High-tensile steel wire
- **Cover:** MSHA pin-pricked neoprene blend

**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

Contact coupling manufacturer for attachment procedure and other coupling recommendations

---

### Table: EHW028 Heavy Duty MSHA Mine Spray

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<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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<td>bar   psi</td>
<td>bar psi</td>
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H345

Pressure Washer

**Construction:**
- **Tube:** Oil-resistant Nitrile (RMA Class A)
- **Reinforcement:** 1-braid wire
- **Cover:** Vinyl nitrile MSHA approved

**Operating Temperature:**
-18°C to +93°C (0°F to +200°F)

**Application:**
- High pressure cleaning and degreasing
- Washdown of food processing equipment
- Pressure wash engines, equipment, tanks, building, etc.

**Markets:**
- Construction
- Food
- Marine
- Agriculture
- Oil exploration/drilling
- General industry
- Mining

**Type of Couplings:**
- TTC Fittings
- “Z” Series

Contact coupling manufacturer for attachment procedure and other coupling recommendations

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Refer to warnings and safety information on pages O-1 – O-18. 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

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<th>Max Oper Pressure</th>
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Refer to warnings and safety information on pages O-1 – O-16.
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

### Application:
- **For artificial snow equipment**

### Markets:
- **Artificial snow**

### Type of Couplings:
- **Male NPT**

Contact coupling manufacturer for attachment procedure and other coupling recommendations.

---

<table>
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<tr>
<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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* Product also available in BK-Black, RD-Red, and YW-Yellow.
**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

**Water – Specialty**

**EHW022**

**Heavy Duty Radiator Car Heater**

**Part No.**
- EHW022-06-MXX 300
- EHW022-08-MXX 300
- EHW022-10-MXX 300
- EHW022-12-MXX 300
- EHW022-16-MXX 300

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<th>Burst Pressure</th>
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<th>Weight lbs/ft</th>
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Refer to warnings and safety information on pages O-1 – O-16. 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.
### EHW021 Radiator Car Heater

**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

**Warning:**
Refer to warnings and safety information on pages O-1 – O-16. 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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**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

---

### Table: Radiator Hose Specifications

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**FC701**

**Eaton GATOR™ Hose**

**Construction:**
- **Tube:** Blue elastomer tube
- **Reinforcement:** Single braid, high strength textile
- **Cover:** Orange ether-based polyurethane

**Operating Temperature:**
-40°C to +66°C
(-40°F to +150°F)

**Application:**
- High-pressure sewer cleaning
- Agency Listing: Meets WEMI specifications

**Markets:**
- Waste management

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

### Part No.

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<th>Hose O.D.</th>
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**FC701-12 Gator Hose with FJ9372-1212S Fittings**

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**FC701-16 Gator Hose with FJ9372-1616S Fittings**

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**FC701-20 Gator Hose with FJ9372-2020S Fittings**

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## Water – Sewer Cleaning

**FC702**

**Eaton GATOR™ Hose**

**Construction:**
- **Tube:** Blue elastomer tube
- **Reinforcement:** Single braid, high strength textile
- **Cover:** Blue ether-based polyurethane

**Application:**
- High-pressure sewer cleaning

**Operating Temperature:**
-40°C to +66°C
(-40°F to +150°F)

**Agency Listing:**
Meets WEMI specifications

**Markets:**
- Waste management

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

### Performance Specifications

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<th>Color</th>
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<td>bar psi</td>
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<td>mm in</td>
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*Sold as assemblies only. Reference assembly part numbers below

### Order Information

**FC702-12 Gator Hose with FJ5020-1212S Fittings**

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<td>FB7187-0009</td>
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<tr>
<td>FB7187-0018</td>
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</table>
## Permanent Fittings, GATOR™ Hose

### Male Pipe (Swage Only)

Fittings for use with hose: FC701, FC702

<table>
<thead>
<tr>
<th># Part Number</th>
<th>Terminal End</th>
<th>Thread</th>
<th>Hose Size</th>
<th>A</th>
<th>D Cut Off Factor</th>
<th>E Ø</th>
<th>( \theta )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dash Size</td>
<td>DN</td>
<td>Dash Size</td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>FJ9372-1212S</td>
<td>-12</td>
<td>3/4 - 14</td>
<td>19</td>
<td>-12</td>
<td>81.3</td>
<td>3.20</td>
<td>34.3</td>
</tr>
<tr>
<td>FJ5020-1212S*</td>
<td>-12</td>
<td>3/4 - 14</td>
<td>19</td>
<td>-12</td>
<td>81.3</td>
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<td>34.3</td>
</tr>
<tr>
<td>FJ9372-1616S</td>
<td>-16</td>
<td>1 - 11 1/2</td>
<td>25</td>
<td>-16</td>
<td>94.5</td>
<td>3.72</td>
<td>40.1</td>
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<tr>
<td>FJ9372-2020S</td>
<td>-20</td>
<td>1 1/4 - 11 1/2</td>
<td>31</td>
<td>-20</td>
<td>110.5</td>
<td>4.35</td>
<td>50.5</td>
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*For FC702-12 hose only.

### Hose Mender Fitting (Swage Only)

Fittings for use with hose: FC701, FC702

<table>
<thead>
<tr>
<th># Part Number</th>
<th>Terminal End</th>
<th>Thread</th>
<th>Hose Size</th>
<th>A</th>
<th>D Cut Off Factor</th>
<th>E Ø</th>
<th>( \theta )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dash Size</td>
<td>DN</td>
<td>Dash Size</td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>FJ9373-1212S</td>
<td>-12</td>
<td>--</td>
<td>19</td>
<td>-12</td>
<td>85.9</td>
<td>3.38</td>
<td>9.7</td>
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<tr>
<td>FJ5021-1212S*</td>
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<td>--</td>
<td>19</td>
<td>-12</td>
<td>85.9</td>
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<td>9.7</td>
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<tr>
<td>FJ7938-1616S</td>
<td>-16</td>
<td>--</td>
<td>25</td>
<td>-16</td>
<td>101.6</td>
<td>4.00</td>
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<tr>
<td>FJ9373-2020S</td>
<td>-20</td>
<td>--</td>
<td>31</td>
<td>-20</td>
<td>124.7</td>
<td>4.91</td>
<td>13.2</td>
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</table>

*For FC702-12 hose only.
## 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>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Max Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EHS520-08-</td>
<td>MXX</td>
<td>12</td>
<td>12,7</td>
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<tr>
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<td>EHS520-10-</td>
<td>MXX</td>
<td>16</td>
<td>15,9</td>
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<td>200</td>
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<tr>
<td></td>
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<td>1.50</td>
<td>54,0</td>
<td>2.13</td>
<td>200</td>
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</tbody>
</table>
## 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 Oper Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>EHS540-10-</td>
<td>15,9</td>
<td>28,0</td>
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<td>3625</td>
<td>625</td>
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<tr>
<td>EHS540-12-</td>
<td>19,0</td>
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<td>250</td>
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<td>625</td>
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<td>3.54</td>
</tr>
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<td>EHS540-16-</td>
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<td>39,3</td>
<td>250</td>
<td>3625</td>
<td>625</td>
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<td>EHS540-20-</td>
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<td>48,0</td>
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<td>3625</td>
<td>625</td>
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<td>5.12</td>
</tr>
<tr>
<td>EHS540-24-</td>
<td>38,1</td>
<td>54,0</td>
<td>250</td>
<td>3625</td>
<td>625</td>
<td>9065</td>
<td>5.91</td>
</tr>
</tbody>
</table>
Couplings General Information
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
- Maximum pressure requirements
- 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.
Couplings General Information

Coupling Configurations

Examples of Coupling Configurations

**Short Shank**
- **Service:** Low pressure air and water service
- **Size Range:** 3/16” to 1”
- **Description:** Cast brass with serrated shank; GHT, NPSM or NPT male and NPSH female; washer seal
- **Attachment:** Clamps or bands

**Long Shank**
- **Service:** Medium pressure air, water, sanitary and liquids in suction or discharge service
- **Size Range:** 3/8” to 4”
- **Description:** Machined steel or brass with serrated shank; NPT or NPSM male and female; thread seal to NPT and washer seal to NPSM female
- **Attachment:** Bands or clamps

**Barbed Insets**
- **Service:** Low or medium pressure air, water and fluids
- **Size Range:** 3/16” to 1”
- **Description:** 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
- **Attachment:** Bands or clamps

**Interlocking**
- **Service:** High pressure air and water service, steam, high pressure spray, and LPG service
- **Size Range:** 1/4” to 6”
- **Description:** Plated malleable iron; insert and spud may be either steel or malleable iron; NPT male and female with ground joint or washer seal
- **Attachment:** Four bolt or two bolt interlocking clamps
Couplings General Information

Coupling Configurations

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
### Couplings General Information

#### Coupling Configurations

**Examples of Coupling Configurations, continued**

<table>
<thead>
<tr>
<th>Coupling Type</th>
<th>Service</th>
<th>Size Range</th>
<th>Description</th>
<th>Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swaged or Crimped</td>
<td>For use on all types of hose where high pressures are used</td>
<td>1 1/4” to 8”</td>
<td>Couplings consist of swaged fittings having serrated steel shanks with ferrules of plated steel</td>
<td>Swaging or crimping equipment</td>
</tr>
<tr>
<td>Combination Nipple</td>
<td>Low or medium pressure suction and discharge of water, fluids, and material handling</td>
<td>1/2” to 12”</td>
<td>Tubular steel, stainless, malleable iron, aluminum or brass with serrated shank; NPT male threads, grooved, or beveled for welding</td>
<td>Clamps or bands</td>
</tr>
<tr>
<td>Steel Nipple</td>
<td>Medium to high pressure: wide variety of applications.</td>
<td>1/4” to 1”</td>
<td>Machined from cold drawn bar steel, heat treated for toughness</td>
<td>Interlocking clamps</td>
</tr>
<tr>
<td>Single Bolt Clamp</td>
<td>Low pressure, and suction service on shank couplings, combination nipples, and pipe nipples</td>
<td>7/8” to 5 1/4” hose O.D.</td>
<td></td>
<td>Bolted on hose</td>
</tr>
</tbody>
</table>
Couplings General Information

Coupling Configurations

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
Chemical Resistance
## Chemical Resistance

### Charts

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Hose and Tubing Material</th>
<th>Metals</th>
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</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 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>
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<tr>
<td>Alums</td>
<td>G</td>
<td>G</td>
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<tr>
<td>Ammonia, Anhydrous</td>
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</tr>
<tr>
<td>Ammonia Solution (10%)</td>
<td>G</td>
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</tr>
<tr>
<td>Ammonium Chloride</td>
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<td>G</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
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<td>X</td>
</tr>
<tr>
<td>Ammonium Nitrate</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>Ammonium Phosphate</td>
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<td>G</td>
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<tr>
<td>Amyl Acetate</td>
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<tr>
<td>Amyl Alcohol</td>
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<tr>
<td>Aniline</td>
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<td>Aniline Dyes</td>
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<tr>
<td>Animal Oils and Fats</td>
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<tr>
<td>Anti-Freeze (Glycol Base)</td>
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<tr>
<td>Aqua Regia</td>
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<tr>
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<tr>
<td>Barium Chloride</td>
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<tr>
<td>Barium Hydroxide</td>
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<tr>
<td>Barium Sulfate</td>
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<tr>
<td>Barium Sulfide</td>
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<td>G</td>
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</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
<table>
<thead>
<tr>
<th>Fluid</th>
<th>UHMW</th>
<th>XLPE</th>
<th>PVC</th>
<th>Nitrile</th>
<th>Vinyl Nitrile</th>
<th>Neoprene</th>
<th>Teflon (PTFE)</th>
<th>Teflon (FEP)</th>
<th>Teflon 666</th>
<th>Nylon</th>
<th>EPDM</th>
<th>Hypalon</th>
<th>Natural Rubber/SBR</th>
<th>Hytrel</th>
<th>Polyurethane</th>
<th>CPE</th>
<th>EVA</th>
<th>LLDPE</th>
<th>Nylon 11</th>
<th>PVC/PU Blends</th>
<th>Brass</th>
<th>Steel</th>
<th>316 Stainless</th>
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<tbody>
<tr>
<td>Beet Sugar Liquors</td>
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<tr>
<td>Beet Sugar</td>
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<td>G</td>
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</tr>
<tr>
<td>Black Sulfate Liquor</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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<td>F</td>
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<td>F</td>
<td></td>
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<tr>
<td>Bleach Solution</td>
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<td>X</td>
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<td>G</td>
<td>X</td>
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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

#### Charts

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### Chemical Resistance

#### Charts

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- **G** - Good
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EATON Industrial Hose Master Catalog - Global  E-HOIN-SS001-E  2014  N-5
## Chemical Resistance

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○ 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 Pinpricked hose for gas applications
## Chemical Resistance

### Charts

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**- Good  ** - Fair  — - Insufficient Information  *For Intermittent Transfer Only  **Use Approved Freon Hose
***Use Propane Approved Hose Only  ○Use Pinpricked Hose for Gas Applications
### Chemical Resistance

**Charts**

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**Legend:**
- **G** - Good
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Chemical Resistance

Charts

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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
Proper Storage of Hose Product

Proper storage conditions can enhance and extend substantially the ultimate life of hose product. 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 of storing hose depends to a great extent on its size (diameter and length), 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 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 wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Notes
General Hose Information

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.

A special application consideration, especially in gases, petroleum-based liquids, volatile solvents, and dry material transfer applications, is whether the velocity of the material being transferred will cause static buildup. This, in turn, can cause an explosion.

According to ARPM Hose Handbook 8th edition 2009:

Electrical engineers differ in opinion on the effects of static electricity and the means of dissipating it. In handling gasoline and other petroleum-based liquids, recognized national associations and companies have conflicting opinions on the need for conductive hoses. Until a consensus is reached among all associations, laboratories and users and a standard practice is established, it is essential that the user determine the need for a static bonded hose based on (a) the intended use of the hose, (b) instructions from the company’s Safety Division, (c) the ensurer, and (d) the laws of the states in which the hose will be used.

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. Examples would be sand blast hose with conducting tube or aircraft fueling hose with a conducting cover.

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.
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.

For example, Eaton Industrial’s Tiger and Otter hoses list inner tubes made from EPDM, but recommended use for each of these hoses is quite different. 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.
General Hose Information

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 P-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:

- North America contact Eaton Technical Support 1-888-258-0222
- For global support contact your local Eaton technical representative.

Heat can be a catalyst for chemical reaction. When selecting a 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:

- North America contact Eaton Technical Support 1-888-258-0222
- For global support contact your local Eaton technical representative.

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 19.5 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 proof-tested 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.
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 Hose Information

Hose Maintenance

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.
- Store items on a first-in, first-out basis. Remember that even under the best of conditions, an unusually long shelf life will deteriorate certain rubber products. Inspect and test the hose assembly before placing it in service. Usually, any wear or damage will be apparent during inspection or testing.
- The ideal temperature for the storage of rubber products ranges from 50° to 70°F (10-21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and will require warming before being placed in service.
- Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

Storage

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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

ARPM
1400 K Street, N.W.
Washington, D.C. 20005
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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.

- 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.

WARNING: Do not use damaged hose. Doing so could result in serious personal injury or death.
General Hose Information

Hose Maintenance

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.

If you choose the soak tank method, the cleaning solution usually caustic soda and water-should be no more than 150°F. Gently lay the hose in the cleaning solution to prevent it from splashing.

Soak the hose no more than 15 minutes to prevent the hose from becoming brittle with a shortened service life. Flush the hose thoroughly with clean water. After making sure that all the water is drained from the hose, store the hose in a cool, dry place. Once the hose has cooled (approximately 45 minutes), cap the ends to keep contaminants out.

The second method of cleaning is the closed-loop system. With this method, the caustic solution used to clean the tank is also pumped through the hose and back to the tank. Typically, fluid is 180°F and is pumped through the system until the tank is clean.

When the cleaning process is complete, flush the hose thoroughly with water. Store the hose in a cool, dry place. Cap the ends to keep contamination out.

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.

**WARNING:** Strong acids should be thoroughly drained prior to and after cleaning to avoid an exothermic reaction.

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</th>
<th>Tensile Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (High oil resistance)</td>
<td>+25%</td>
<td>80%</td>
</tr>
<tr>
<td>B (Medium-High oil resistance)</td>
<td>+65%</td>
<td>50%</td>
</tr>
<tr>
<td>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 for North America at 1-888-258-0222 for global technical support contact your local Eaton technical representative.

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(s) being transferred. 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.
General Hose Information

Flow Rate, Pressure Drop and Flow Capacity

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 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 Length

Chart 1 gives the pressure drop in different-sized hoses based on hoses of 100-foot length, and is based on water as the material conveyed. For hoses of a different length, these values must be corrected. For example, a 100-foot length of 1/2" hose causes a pressure drop of 100 lbs./in.² at a flow rate of 10 gal/min. If the hose in question is 50 feet long, the pressure drop derived from Chart 1 must be corrected by multiplying the value by the ratio of the actual length to 100 feet, or 50/100, or 0.5. Therefore, the actual pressure drop caused by a 50-foot length of 1/2" hose, at a flow rate of 10 gal./min. is 50 lbs./in.² (0.5 x 100 = 50 lb./in.²).

Hose Fittings and Fluid 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. Chart 3 lists common fluids, their specific gravities, viscosities, and corresponding correction factors. To determine the pressure drop for a specific fluid, first determine the pressure drop from Chart 1 for the hose length then divide this by the correction factor found in Chart 3. For example, the 50-foot length of 1/2" hose just described had a pressure drop of 50 lbs./in.² at a flow of 10 gal./min. of water. To determine the pressure drop if #2 fuel oil is the material conveyed, divide by 0.752 (from Chart 3) 50 ÷ 0.752 = 66.5 lbs./in.² pressure drop. If, on the other hand, the material conveyed is Type #3 gasoline, the pressure drop would be 50 ÷ 1.19 = 42 lbs./in.²
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 earlier 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 contact Eaton Technical Support at 1-888-258-0222.

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? __________________
   If it is an existing application, do not replace a failed hose without finding out the cause of the failure. The hose may have been specified incorrectly originally. Ask the following questions:
   What hose was in use? ______________________________________________
   Why did it fail? _____________________________________________________
   How long did the hose last? _________________________________________
   Have the service conditions changed since the failed hose was installed? __________
   Any movement during loading or unloading process such as flexing or other repetitive motion? ______
   What other hose conditions exist in addition to the one at the failure point? __________________
   Was hose cleaned and dried prior to transferring the next material? ________________
   Examine other hoses in similar service to avoid unexpected failures. ________________

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
   Material to be transferred? ____________________________________________
   Material concentration (%)? __________________________________________
   What hose cleaning solution(s) will be used? ____________________________
General Hose Information

Be sure to reference chemical compatibility recommendations in the Chemical Compatibility Charts starting on page N-1–N-11.

If you have any questions, please contact Eaton Technical Support at 1-888-258-0222.

<table>
<thead>
<tr>
<th>S - Size</th>
<th>T - Temperature</th>
<th>A - Application</th>
<th>M - Material</th>
<th>P - Pressure</th>
<th>E - Ends</th>
<th>D - Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I.D., O.D. and length)</td>
<td>of material conveyed, type and concentration</td>
<td>the conditions of use</td>
<td>being conveyed, type and concentration</td>
<td>to which the assembly will be exposed</td>
<td></td>
<td>testing, quality, packaging, and delivery requirements</td>
</tr>
</tbody>
</table>

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?
  - Pinpricked 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

Be sure to reference chemical compatibility recommendations in the Chemical Compatibility Charts starting on page N-1–N-11.
## Steam Temperatures

### Temperatures of Saturated Steam at Various Pressures

<table>
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<th>Lbs. per Sq. Inch Pressure</th>
<th>Degrees Fahrenheit</th>
<th>Degrees Centigrade</th>
<th>Lbs. per Sq. Inch Pressure</th>
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<th>Degrees Centigrade</th>
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</table>

**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 (+19°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.
## General Hose Information

### 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.

<table>
<thead>
<tr>
<th>ASTM Designation</th>
<th>Common Name</th>
<th>Composition</th>
<th>General Properties</th>
</tr>
</thead>
</table>
| CR               | Neoprene          | Chloroprene                        | • Good abrasion  
• Good weathering resistance  
• Good oil resistance  
• Flame retarding                                                   |
| NBR              | Nitrile (Buna-N)  | Acrylonitrile-butadiene            | • Excellent oil resistance  
• Moderate resistance to aromatics                                  |
| IIR              | Butyl             | Isobutylene-isoprene               | • Excellent ozone resistance  
• Good abrasion resistance to fire resistant fluids  
• Good heat resistance  
• Low permeability  
• Poor resistance to petroleum fluids                                |
| CIIR             | Chlorinated Butyl | Chloro-isobutylene isoprene        | • Same as Butyl                                                                                      |
| SBR              | SBR               | Styrene-butadiene                  | • Good abrasion resistance  
• Poor resistance to petroleum fluids                                 |
| EPDM             | EPDM              | Ethylene-propylene diene terpolymer| • Excellent ozone resistance  
• Good chemical resistance  
• Good temperature resistance  
• Poor resistance to petroleum fluids                                 |
| XLPE             | Cross-Linked Polyethylene | Polyethylene & cross linking agents | • Excellent chemical resistance  |
| EVA              | EVA               | Ethylvinylacetate                  | • Excellent flexibility  
• Chemical resistance                                                   |
| LLDPE            | Linear, low density Polyethylene            | Linear, low density Polyethylene   | • Excellent ESCR resistant  
• FDA Approved NSF 51 material available                                |
| Nylon 11         | Nylon 11          | Polyethylene                        | • Good chemical resistance                                                                         |
| PVC/PU Blend     | PVC/PU Blend      | Polyvinyl flouride/polyurethane Blend | • Excellent chemical resistance                                                                 |
| PVDF             | KYNAR® Polymide   | Polyvinylidene flouride             | • Excellent Chemical resistance.                                                                  |
| PA               | Nylon             | Polyamide                           | • Good abrasion resistance  
• Good chemical resistance  
• Low coefficient of friction                                           |
| CSM              | Hypalon           | Chloro-sulfonated Polyethylene     | • Excellent ozone resistance  
• Good abrasion resistance  
• Good heat resistance  
• Fair petroleum qualities                                               |
| NR               | Natural Rubber    | Polyisoprene                        | • Excellent abrasion resistance  
• Acid resistance  
• Not oil resistant                                                      |
| V-NBR            | Vinyl Nitrile     | PVC/NBR                             | • Good ozone resistance  
• Good resistance to animal fats & oils  
• Good petroleum resistance                                             |
| UHMWPE           | Ultra-high molecular weight Polyethylene | Polyethylene             | • Excellent chemical resistance  
• Moderate heat resistance  
• Excellent abrasion resistance  
• FDA-accepted material                                                  |
| CM               | CPE               | Chlorinated Polyethylene            | • Excellent ozone resistance  
• Excellent abrasion resistance  
• Excellent weathering resistance                                        |
| XNBR             | Carboxylated Nitrile | Carboxylated Acrylonitrile-butadiene | • Excellent abrasion resistance  
• Excellent oil resistance  
• Excellent weather resistance                                           |
| PTFE             | Teflon            | Polytetrafluoroethylene             | • Excellent temperature resistance  
• Excellent chemical resistance  
• FDA accepted material  
• Low coefficient of friction for high flow rates and easy cleaning  
• Excellent resistance to thermocycling                                  |
| PVC              | PVC               | Polyvinylchloride                   | • Resistant to many chemicals  
• Good Flexibility                                                        |
| FEP              | Teflon            | Fluorinated Ethylene Propylene      | • Excellent temperature resistance  
• Excellent chemical resistance  
• FDA accepted material  
• Low coefficient of friction for high flow rates and easy cleaning  
• Excellent resistance to thermocycling                                  |

KYNAR® is a registered trademark of Arkema, Inc.
## Mass Equivalents Table

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<th>Grams (g)</th>
<th>Kilograms (kg)</th>
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<th>Ounces (oz)</th>
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Mass = 1 kg = 0.001 metric ton = 2.20462 lb = 35.27392 oz
1 lb = 16 oz = 5 x 10^-4 ton = 453.593 g = 0.53593 kg
Length = 1 m = 100 cm = 1000 mm = 10^6 microns (µm) = 10^10 angstroms (Å)
= 39.37 in = 3.2808 ft = 1.0936 yd = 0.0006214 mile
### Temperature Conversions Chart

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<th>Degrees</th>
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### Pressure Conversions Chart

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<th>kPa (kilopascals)</th>
<th>bar</th>
<th>atm</th>
<th>mm Hg</th>
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### Pressure Conversions

- 1 atm = 1.01325 x 10^5 N/m^2 (Pa) = 101.325 kPa = 1.01325 bars
- 1 atm = 1.01325 x 10^6 dynes/cm^2
- 1 atm = 760 mm Hg at 0°C (torr) = 10.333 m H₂O at 4°C
- 1 atm = 14.696 lb/in.² (psi) = 33.9 ft H₂O at 4°C
- 1 atm = 29.921 in Hg at 0°C

---

O-18 EATON Industrial Hose Master Catalog - Global E-HOIN-SS001-E 2014
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 = ν = 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.
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These terms and conditions of sale are between the Buyer and the Eaton affiliate selling the products or services (hereinafter referred to as “products”) to Buyer (hereinafter referred to as “Seller”). 1. Quotations. Unless otherwise indicated on the quote, written quotations by Seller shall expire automatically 90 days after the date appearing on the quotation unless Seller receives and accepts Buyer’s purchase order within that period. Prior to the expiration date any quotation is subject to change by Seller at any time upon oral or written notice to Buyer.

2. Acceptance of Purchase Orders. Notwithstanding any contrary language in Buyer’s purchase order, each purchase order shall be subject to acceptance by an authorized employee of Seller. All purchase orders accepted by Seller are sold, delivered, and contracted for, and shall not, additional plainly and prominently stated on the face of the purchase order, be considered a sale to any federal, state, provincial or municipal governmental entity either domestic or foreign. No contract shall exist except as hereinafore provided.

3. Price Changes. Prices are subject to change to the prices in effect at the time of delivery. Seller reserves the right to make any corrections to prices quoted due to clerical errors or errors of omission. In the event that any design, specification or ordered quantity changes representing a price increase, Buyer will be notified and afforded an opportunity to confirm.

4. Delivery. Lead times are for reference only and are subject to change. Design and/or specification changes are subject to review for possible adjustments to delivery. Order quantities subject to scheduled delivery dates must be mutually agreed upon.

5. Taxes. Any and all sales, use, or other permissible taxes assessed upon any sale or products sold shall be added to the purchase price of the products.

6. Payment Terms. Payment terms are net 30 days from date of invoice if Seller has approved Buyer’s credit.

7. Packaging. The cost of standard bulk packaging for shipment in the United States and Canada is included in Seller’s price. Additional charges may be imposed for special domestic packaging, overseas packaging, or special marking performed at Buyer’s request and agreed to by Seller.

8. Shipment Terms. Unless Seller agrees otherwise, all shipments shall be freight collect F.O.B. origin (shipping point). Seller shall also be entitled to impose additional charges for the completion, at Buyer’s request, of forms with respect to shipping. Unless otherwise agreed, shipment may be made by lots of reasonable commercial size as Seller determines appropriate.

9. Title and Risk of Loss. Risk of loss or damage in transit shall be borne entirely by Buyer at all times after the products are delivered to the carrier for shipment. However, the right to stop delivery in transit shall remain with Seller until payment in full has been received by Seller.

10. Delays or Default in Delivery. Seller shall have no liability to Buyer for Seller’s delay or default in delivery due to strikes, secondary boycotts, riots, wars, accidents, fires, floods, explosions, vandalism, government embargoes, priorities or regulations, transportation delays, shortages of labor, fuel, materials, supplies, power, transportation facilities or tooing capacity or other similar or dissimilar causes beyond Seller’s reasonable control. Under no circumstances shall Seller have any liability for penalties or other consequential damages of any kind resulting in whole or in part from Seller’s delay in delivering, or failure to deliver, any products to Buyer as agreed.

11. Intellectual Property Infringement. With respect to all products manufactured to Buyer’s specifications, Buyer shall indemnify and hold Seller harmless from and against any and all loss, cost, expense, claims, demands, suits and judgments arising from actual or alleged infringement of any third party intellectual property right. With respect to all other products sold by Seller, Seller shall defend any suit or proceeding brought against Buyer on claim that such product, or any part thereof, directly infringes any third party intellectual property right, provided that Seller is notified promptly in writing and given all necessary information, assistance and authority to defend the same. Seller shall pay all damages and costs awarded against Buyer as a result thereof. If as the result of such direct infringement, the court enjoins the use of any product, or part thereof, in the manner intended by Seller, Seller shall at its sole expense and option: (a) procure for Buyer the right to continue using said product or part; (b) replace such product or part with a non-infringing product or part; (c) modify said product or part so that it becomes non-infringing. In the event Seller fails to do any of the above, Buyer may cancel the order and return the product, provided that Buyer has paid Seller’s purchase price and transportation costs. Seller shall have no further liability for actual or alleged patent infringement except as provided herein.

12. Design and Technical Information. Seller claims proprietary rights in the items and information associated with this order. Drawings and technical information are issued in confidence for engineering information and shall not be used for any other purpose and may not be reproduced or used by Buyer without Seller’s prior written consent and shall be returned upon the earlier of Seller’s written request or when its purpose has been served.


14. Cancellation. Changes and/or cancellations to existing schedules or orders are subject to Seller’s acceptance and any applicable cancellation charges (and possible increase in per piece price due to reschedules). Cancellation charges will be determined by the type of product and the stage of completion. Cancellation charges for special products will be based on the selling price less amounts saved at the time of cancellation. Seller will accept temporary holds on orders for rescheduling purposes for a period not to exceed 30 days. If at that time a reschedule is not received, Seller reserves the right to recommence shipments in accordance with the original schedule or cancel the order.

15. Returns. No products shall be returned to Seller, whether for inspection, repair, replacement, or any other reason, without prior written approval from Seller. Products and parts must be returned in new or like new condition with complete identification in accordance with Seller’s instructions or the shipment may not be accepted. All returns must be sent to Seller freight prepaid F.O.B. determination unless otherwise instructed. Where written authorization has been obtained to return products and parts for reasons beyond warranty, a restocking charge of twenty five percent (25%) and any additional transportation charges are applicable.

16. Minimum Order. Minimum order amount is $100.00.

17. Remedies. Any lawsuit or legal claim for breach of this order must be brought within one year after the breach occurs.

18. Currency. Unless otherwise indicated on the invoice, all payments are to be made in United States dollars.

19. Governing Law. The terms and conditions of this agreement shall be construed according to the laws of the state of Ohio.

20. Limitation of Liability. THE REMEDIES OF THE BUYER SET FORTH IN THESE TERMS AND CONDITIONS OF SALE ARE EXCLUSIVE AND ARE THE SOLE REMEDIES FOR ANY FAILURE OF SELLER TO COMPLY WITH ITS OBLIGATIONS HEREUNDER. NOTWITHSTANDING ANY PROVISION IN THESE TERMS AND CONDITIONS OF SALE TO THE CONTRARY, IN NO EVENT SHALL SELLER BE LIABLE IN CONTRACT, WARRANTY, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR DAMAGE TO PROPERTY OR EQUIPMENT OTHER THAN PRODUCTS SOLD HEREUNDER, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, DELAYS, CLAIMS OF CUSTOMERS OF THE BUYER OR OTHER THIRD PARTIES OR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, REGARDLESS OF WHETHER SUCH POTENTIAL DAMAGES ARE FORESEEABLE OR IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL CUMULATIVE LIABILITY OF SELLER ARISING FROM, CONNECTED WITH, RESULTING FROM OR RELATED TO THESE TERMS AND CONDITIONS OF SALE WHETHER THE CLAIMS ARE BASED IN CONTRACT, WARRANTY, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, SHALL NOT EXCEED THE PRICE OF THE PRODUCT ON WHICH SUCH LIABILITY IS BASED.