

# Chemical Service Hose

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# Chemical Service Hose

## Intro

E

### Important Chemical Service Hose Safety Information!

**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.

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.

### Chemical Hose Benefits

#### 4:1 Safety Factor (Burst: Working Pressure)

- Safer operation
- Longer hose life

#### 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.

### Built to Make Work Faster, Easier and Safer

- Moving and connecting hose several times a day isn't easy work. Each of the "Big Cats" 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 "Big Cats." That's why we put the Eaton brand name on them.

### Common Hose Cover Colors for Fluid Transfer:

Yellow	Hazardous (Chemical/Acid)
Black/Orange	Petroleum Transfer
Green	Multi-Chemical
Purple	Multi-Chemical (Europe/Asia)
Brown	Hot Air
White/Grey	FDA Approved

### 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 RMA 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 ser-

vice, it shall be visually inspected daily and hydrostatically tested every 90 days. The details of the examination and testing are listed in this catalog. An inspection card and recording system should be adopted for chemical hose used in dock applications.

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

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

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

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

### Tiger Acid Suction



E

**Tube:** EPDM

**Reinforcement:** Fiber, 2 Ply or 4 Ply and Helical Wire

**Cover:** EPDM

**Color:** Yellow

**Temperature Range:** -45°F to +180°F

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 150 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- EPDM tube
- Continuous printed brand
- Yellow cover
- Flexible

#### Advantages:

- Chemical and ozone resistant; longer hose life.
- Acid and chemical resistant
- Easy identification
- Color coded for flexible pipe systems
- Easy to handle

#### Markets:

- Chemical industry
- Mining industry
- Foundries
- Lumber/Woodworking
- Plywood mfg.
- Pulp/Paper processing
- Food processing
- Tank truck
- Railroad tank car
- Metal working

#### Applications:

- Transfer of acids and chemicals through pumping, suction, and discharge.
- Transfer of chemicals and acids for processing products.
- Loading and unloading, pumping, suction, or gravity flow discharge
- Etching; cleaning.

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Standard (mm)	Length (Ft)
H034524-100*	1-1/2	38.1	2 Ply	2-1/8	60.3	155	150	4	101.6	100
H034532-100	2	50.8	2 Ply	2-5/8	73.0	192	150	5	127.0	100
H034548-150	3	76.2	2 Ply	3-5/8	100.0	286	150	9	228.6	150
H034564-150	4	101.6	2 Ply	4-43/64	125.4	369	150	11	279.4	150
H034596-150	6	152.4	4 Ply	7-7/32	183.4	782	150	30	762.0	150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Cheetah Acid Suction



**Tube:** Hypalon®\*

**Reinforcement:** Fiber, 2 Ply and Helical Wire

**Cover:** Neoprene

**Color:** Yellow

**Temperature Range:** -40°F to +200°F

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 150 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- Neoprene cover
- Hypalon tube
- Continuous printed brand
- Yellow cover
- Flexible
- Transfer of acids and chemicals

#### Advantages:

- Age, chemical and ozone resistant; longer hose life.
- Acid and chemical resistant
- Easy identification
- Meets OSHA color requirements for flexible pipe systems
- Easy to handle
- Flexibility of applications

#### Markets:

- Chemical industry
- Lumber/Woodworking
- Plywood mfg.
- Pulp processing
- Tank truck
- Railroad tank car
- Metal working

#### Applications:

- Transfer of acids and chemicals through pumping, suction, and discharge.
- Transfer of chemicals for processing products.
- Loading and unloading, pumping, or gravity flow discharge
- Etching; cleaning.

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
H042332-150	2	50.8	2 Ply	2-7/8	73.0	192	150	9	228.6	150
H042348-150*	3	76.2	2 Ply	3-15/16	100.0	286	150	20	508.0	150
H042364-150*	4	101.6	2 Ply	4-15/16	125.4	369	150	30	762.0	150

\* Hypalon® is a registered trademark of DuPont Dow Elastomers.

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Leopard Acid Discharge



**Tube:** EPDM

**Reinforcement:** Fiber, 2 Ply

**Cover:** EPDM

**Color:** Yellow

**Temperature Range:** -45°F to +180°F

**Type Of Branding:** Printed Strip

**Working Pressure:** 100-150 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/  
Crimped. Clamps—Interlocking  
or Band

#### Features:

- EPDM cover
- EPDM tube
- Continuous printed brand
- Yellow cover
- Flexible

#### Advantages:

- Chemical and ozone resistant; longer hose life.
- Acid and chemical resistant
- Easy identification
- Color coded for flexible pipe systems
- Easy to handle
- Meets OSHA color requirements for flexible pipe systems

#### Markets:

- Chemical industry
- Mining industry
- Foundries
- Lumber/Woodworking
- Plywood mfg.
- Pulp/Paper processing
- Food processing
- Tank truck
- Railroad tank car
- Metal Working

#### Applications:

- Transfer of acids and chemicals through pumping and discharge
- Transfer of chemicals and acids for processing products
- Loading and unloading, pumping, or gravity flow discharge
- Etching; cleaning

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
H034624-100*	1-1/2	38.1	2 Ply	2-17/64	57.4	120	150	6	152.4	100
H034632-100	2	50.8	2 Ply	2-3/4	69.9	150	150	9	228.6	100
H034648-100*	3	76.2	2 Ply	3-3/4	98.0	210	100	20	508.0	100
H034664 *	4	101.6	2 Ply	4-55/64	123.4	260	100	30	762.0	50

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Alleycat



**Tube:** Synthetic Rubber Specially Compounded for High Temperature Applications

**Reinforcement:** Wire Braid, 2 Stainless Steel Static Wires (1-1/2" and 2"). 2 Steel Helical Wires (3").

**Cover:** EPDM

**Color:** Yellow

**Temperature Range:** -40°F to +300°F

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 500 psi  
(Depending on coupling and clamp)

**Type Of Coupling:** Interlocking, Cam and Groove or Swaged/Crimped. Clamps—Interlocking, Swaged/Crimp Ferrule or Band.

#### Features:

- Wire braid
- Dual stainless steel static
- EPDM cover
- Specially compounded tube

#### Advantages:

- Permanent crush-resistant
- 500 psi in all sizes
- Abrasion, age- and ozone-resistant cover
- Handles up to 300°F
- May be cleaned with steam, open end discharge only
- Safe transfer of hot cleaning solution

#### Markets:

- Pulp and paper industry
- Industrial cleaning

#### Applications:

- In-plant transfer of liquors and cleaning solutions
- Tank spinner
- Hot caustics

Product Number	Nominal I.D. (in.)	(mm)	Reinf.	Nominal O.D. (in.)	(mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (In.)	Standard Length (Ft)
H969924	1-1/2	38.1	2 Br	2-3/16	55.6	150	500	8	50
H969924-150*									150
H969932	2	50.8	2 Br	2-11/16	68.3	177	500	16	50
H969932-150*									150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Green Cross-Linked



**Tube:** Clear Cross-Linked Polyethylene (XLPE)  
**Reinforcement:** Fiber, 2 Braid or 2 Ply and Helical Wire  
**Cover:** EPDM  
**Color:** Green  
**Temperature Range:** -45°F to +150°F  
**Type Of Branding:** Embossed

**Suction:** Full Vacuum  
**Working Pressure:** 150-200 psi (Depending on coupling)  
**Type Of Coupling:** 'U' Series with 1" & 1-1/4", Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- Clear cross-linked polyethylene tube
- Continuous embossed brand
- Green cover
- Smooth bore
- Serialized lengths

#### Advantages:

- Chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- Easy identification
- Rapid fluid flow
- Easy to clean
- Safety and maintenance records

#### Markets:

- Chemical/Petroleum industry
- Lumber/Woodworking
- Plywood mfg.
- Pulp/Paper processing
- Tank truck
- Railroad tank car
- Waste hauling

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing products.
- Loading and unloading, pumping, suction, or gravity flow discharge

Product Number	Nominal I.D. (in.)	(mm)	Reinf.	Nominal O.D. (in.)	(mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	(mm)	Standard Length (Ft)
H037816-150	1	25.4	2 Br	1-17/32	38.9	72	200	5	127.0	150
H037820-150*	1-1/4	31.8	2 Ply	1-7/8	47.6	86	200	8	203.2	150
H037824-150	1-1/2	38.1	2 Ply	2-1/8	54.0	89	200	8	203.2	150
H037832-150	2	50.8	2 Ply	2-5/8	66.7	113	200	9	228.6	150
H037848-150	3	76.2	2 Ply	3-5/8	92.1	164	150	16	406.4	150
H037864-150*	4	101.6	2 Ply	4-11/16	119.1	239	150	21	533.4	150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Green Cross-Link Corrugated



**Tube:** Clear Cross-Linked Polyethylene (XLPE)

**Reinforcement:** Fiber, Ply and Helical Wire

**Cover:** EPDM

**Color:** Green

**Temperature Range:** -45°F to +150°

**Type Of Branding:** Embossed

**Suction:** Full Vacuum

**Working Pressure:** 150-200 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- Clear cross-linked polyethylene tube
- Continuous embossed brand
- Green cover
- Smooth bore
- Serialized lengths

#### Advantages:

- Chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- Easy identification
- Rapid fluid flow
- Easy to clean
- Safety and maintenance records

#### Markets:

- Chemical/Petroleum industry
- Lumber/Woodworking
- Plywood mfg.
- Pulp/Paper processing
- Tank truck
- Railroad tank car
- Waste hauling

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing products.
- Loading and unloading, pumping, suction, or gravity flow discharge

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
H061532-150*	2	50.8	2 Ply	2-5/8	66.7	113	200	7	152.4	150
H061548-150*	3	76.2	2 Ply	3-5/8	92.1	164	150	12	304.8	150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.



### Chemcat Petrochemical



**Tube:** Ultra High Molecular Weight Polyethylene (U.H.M.W.) FDA Approved Materials

**Reinforcement:** Fiber, 2 Ply or 4 Ply and Helical Wire

**Cover:** EPDM

**Color:** Purple (PR), Green (GN), Blue (BU)

**Temperature Range:** -45°F to +250°F† **WARNING\*\***

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 150-200 psi (Depending on coupling)

**Type Of Coupling:** 'U' Series with 3/4", Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- Clear U.H.M.W. polyethylene tube (FDA approved materials)
- Easy to maintain
- Continuous brand
- Ultra smooth tube
- Available in colors

#### Advantages:

- Abrasion, chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- May be cleaned with steam, open end discharge only
- Easy identification

#### Markets:

- Chemical/Petroleum industry
- In-plant transfer
- Mixing operations
- Forest products
- Plywood mfg.
- Pulp processing
- Bulk hauling
- Tank trucks
- Railroad tank car

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing wood products.
- Loading and unloading, pumping, suction, or gravity flow discharge
- Food transfer

Product Number	Nominal I.D. (in.)	I.D. (mm)	Reinf.	Nominal O.D. (in.)	O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Bend Radius (mm)	Standard Length (Ft)
H052312-150	3/4	19.1	2 Ply	1-13/64	30.6	31	200	4	101.6	150(PR & GN)
H052316-150	1	25.4	2 Ply	1-17/32	38.9	55	200	5-1/2	139.7	150(PR & GN)
H052320-150	1-1/4	31.8	2 Ply	1-7/8	47.6	67	200	6	152.4	150(PR & GN)
H052324-150	1-1/2	38.1	2 Ply	2-1/8	54.0	89	200	7-1/2	190.5	150(PR & GN)
H052332-150*	2	50.8	2 Ply	2-5/8	67.0	116	200	8	203.2	150(PR,GN*,&BU*)
H052340-150	2-1/2	63.5	2 Ply	3-1/8	79.4	142	200	8	203.2	150(PR & GN)
H052348-150*	3	76.2	2 Ply	3-5/8	92.2	168	200	9	229.0	150(PR,GN*,&BU*)
H052364-150*	4	101.6	2 Ply	4-43/64	118.7	226	150	15	381.0	150(PR & GN)
H052396-150*	6	152.4	4 Ply	7	177.8	721	150	30	762.0	150(PR & GN)

† Contact Eaton Technical Support at 1-888-258-0222 for higher temperature applications.

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

**\*\* WARNING** – Elevated temperatures can change chemical resistance rating for Chemcat H0523 hose. Please refer to the Chemical Compatibility information in Section A. This information provides guidelines for the safe use of Eaton Industrial Hose and Tubing. The information shown was gathered through testing, and is accurate for controlled conditions (at 70°F unless otherwise noted). Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Contact Eaton for recommendation and assistance. It is the users responsibility to determine if the hose is compatible with the application.

### Chemcat Petrochemical Corrugated



**Tube:** Ultra High Molecular Weight Polyethylene (U.H.M.W.) FDA Approved Materials

**Reinforcement:** Fiber, 2 Ply and Helical Wire

**Cover:** EPDM

**Color:** Purple

**Temperature Range:** -45°F to +250°F† **WARNING\*\***

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 150-200 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- Clear U.H.M.W. polyethylene tube (FDA approved materials)
- Easy to maintain
- Continuous printed brand
- Ultra smooth tube
- Corrugated cover

#### Advantages:

- Abrasion, chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids;
- May be cleaned with steam, open end discharge only
- Easy identification
- Increased flexibility; lightweight

#### Markets:

- Chemical/Petroleum industry
- In-plant transfer
- Mixing operations
- Forest products
- Plywood mfg.
- Pulp processing
- Bulk hauling
- Tank trucks
- Railroad tank car

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing wood products.
- Loading and unloading, pumping, suction, or gravity flow discharge
- Food transfer

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
H059916-150*	1	25.4	2 Ply	1-17/32	38.9	55	200	3.0	76.2	150
H059920-150*	1-1/4	31.8	2 Ply	1-7/8	47.6	67	200	4.0	101.6	150
H059924-150	1-1/2	38.1	2 Ply	2-1/8	54.0	89	200	4.0	101.6	150
H059932-150	2	50.8	2 Ply	2-5/8	67.0	116	200	5.0	127.0	150
H059948-150	3	76.2	2 Ply	3-5/8	92.2	168	200	6.5	165.1	150
H059964-150	4	101.6	2 Ply	4-43/64	118.7	226	150	9.5	241.3	150

† Contact Eaton Technical Support at 1-888-258-0222 for higher temperature applications.

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

**\*\* WARNING** – Elevated temperatures can change chemical resistance rating for Chemcat H0599 hose. Please refer to the Chemical Compatibility information in Section A. This information provides guidelines for the safe use of Eaton Industrial Hose and Tubing. The information shown was gathered through testing, and is accurate for controlled conditions (at 70°F unless otherwise noted). Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Contact Eaton for recommendation and assistance. It is the users responsibility to determine if the hose is compatible with the application.

### Cougar CPE Corrugated



**Tube:** Chlorinated Polyethylene (CPE)

**Reinforcement:** Fiber, 2 Ply Helical Wires

**Cover:** Corrugated EPDM

**Color:** Brown

**Temperature Range:** -45°F to +275°F

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 150 psi (Depending on coupling)

**Type Of Coupling:** Swaged/Crimped, Cam and Groove. Clamps—Ferrule or Band.

#### Features:

- EPDM cover
- CPE tube
- Continuous printed brand
- Brown cover

#### Advantages:

- Abrasion, chemical, and ozone resistant. Longer hose life.
- Chemical, petroleum, acid and alcohol resistant. Heat resistant.
- Easy identification
- Color coded hose systems.

#### Markets:

- Chemical/Petroleum Industry
- In-plant transfer
- Mixing operations
- Forest products
- Lumber/Woodworking
- Plywood manufacturing
- Pulp processing
- Bulk hauling
- Barges
- Tank trucks
- Railroad tank cars

#### Applications:

- Transfer of acids, chemicals, alcohols and petroleum products.
- Transfer of chemicals, and acids for processing wood products.
- Loading and unloading, pumping, suction, or gravity flow discharge

Catalog Number	Nominal I.D. (in.)	(mm)	Braid	Nominal O.D. (in.)	(mm)	Approx. lbs. Weight per 100 ft	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	(mm)	Standard Lengths (Ft)
H066124-150*	1-1/2	38.1	2	2-1/8	54.0	89	150	6	152.4	150
H066132-150	2	50.8	2	2-5/8	67.0	116	150	6	152.4	150
H066148-150	3	76.2	2	3-5/8	92.2	168	150	9	229.0	150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Panther Chemical Transfer



**Tube:** Clear Cross-Linked Polyethylene (XLPE)  
**Reinforcement:** Fiber, 2 Braid or 2 Ply and Helical Wire  
**Cover:** EPDM  
**Color:** Yellow  
**Temperature Range:** -45°F to +150°F  
**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum  
**Working Pressure:** 150-200 psi (Depending on coupling)  
**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- EPDM cover
- Clear cross-linked polyethylene tube
- Printed strip brand and caution label every ten feet
- Smooth bore
- Every length serialized

#### Advantages:

- Chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- Easy identification
- Safety
- High visibility
- Rapid fluid flow
- Easy to clean
- Safety and maintenance records

#### Markets:

- Chemical/Petroleum industry
- Lumber/Woodworking
- Plywood mfg.
- Pulp/Paper processing
- Tank truck
- Railroad tank car

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing products.
- Loading and unloading, pumping, suction, or gravity flow discharge

Product Number	Nominal I.D.		Reinf.	Nominal O.D.		Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
	(in.)	(mm)		(in.)	(mm)			(in.)	(mm)	
H835916-150*	1	25.4	2 Br	1-17/32	38.9	72	200	5	127.0	150
H835920-150*	1-1/4	31.8	2 Ply	1-7/8	47.6	86	200	8	203.2	150
H835924-100*	1-1/2	38.1	2 Ply	2-1/8	54.0	89	200	8	203.2	100
H835932-150*	2	50.8	2 Ply	2-5/8	66.7	113	200	9	228.6	150
H835940-150*	2-1/2	63.5	2 Ply	3-1/8	79.4	140	150	12	304.8	150
H835948-150*	3	76.2	2 Ply	3-5/8	92.1	164	150	16	406.4	150
H835964-150*	4	101.6	2 Ply	4-11/16	119.1	239	150	21	533.4	150

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

### Armorcat Petrochemical



**Tube:** Ultra High Molecular Weight Polyethylene (U.H.M.W.) FDA Approved Materials

**Reinforcement:** Wire, 2 Braid, 2 Stainless Steel Static Wires in 1", 1-1/2" and 2". 3" & 4" has Helical Wires.

**Cover:** EPDM

**Color:** Red

**Temperature Range:** -45°F to +250°F<sup>†</sup> **WARNING\*\***

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 300 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- Two wire braids
- EPDM cover
- Clear U.H.M.W. polyethylene tube (FDA Approved Materials)
- Easy to maintain
- Dual stainless steel ground wires
- Ultra smooth tube

#### Advantages:

- Resistant to permanent crushing
- Abrasion, chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- May be cleaned with steam, open end discharge only
- Static dissipating for a safe connection
- Easy to clean

#### Markets:

- Chemical/Petroleum industry
- In-plant transfer
- Transportation hoses
- Mixing operations
- Chemical handling
- Forest products
- Lumber/woodworking
- Plywood mfg.
- Pulp processing
- Bulk hauling
- Barges
- Tank trucks
- Railroad tank cars

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing wood products.
- Loading and unloading, pumping, suction, or gravity flow discharge

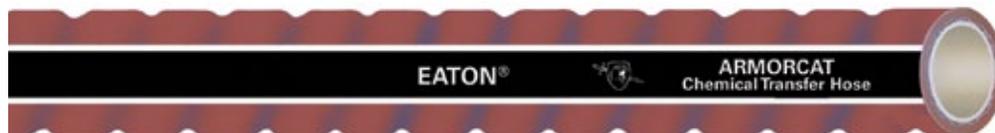
Product Number	Nominal I.D. (in.)	(mm)	Reinf.	Nominal O.D. (in.)	(mm)	Approx. Lbs. Wght Per 100 Ft.	Maximum Working Press. (psi)	Inches Mercury Vacuum	Minimum Bend Radius (in.)	(mm)	Standard Length (Ft)
H055416-150*	1	25.4	2 Br	1-17/32	38.9	55	300	25	6	152.4	150
H055424-150	1-1/2	38.1	2 Br	2-1/16	52.4	97	300	25	8	203.2	150
H055432-100	2	50.8	2 Br	2-19/32	65.9	155	300	25	14	355.6	100
H055432-150	2	50.8	2 Br	2-19/32	65.9	155	300	25	14	355.6	150
H055448-150	3	76.2	2 Br	3-5/8	92.1	231	300	25	22	558.8	150
H055464-150	4	101.6	2 Br	4-43/64	118.7	422	300	25	22	—	150

<sup>†</sup>Contact Eaton Technical Support at 1-888-258-0222 for higher temperature applications.

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

**\*\* WARNING** – Elevated temperatures can change chemical resistance rating for Armorcat H0554 hose. Please refer to the Chemical Compatibility information in Section A. This information provides guidelines for the safe use of Eaton Industrial Hose and Tubing. The information shown was gathered through testing, and is accurate for controlled conditions (at 70°F unless otherwise noted). Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Contact Eaton for recommendation and assistance. It is the users responsibility to determine if the hose is compatible with the application.

### Armorcat Petrochemical Corrugated



**Tube:** Ultra High Molecular Weight Polyethylene (U.H.M.W.) FDA Approved Materials

**Reinforcement:** Wire, 2 Braid,  
2 Stainless Steel Static Wires

**Cover:** EPDM

**Color:** Red

**Temperature Range:** -45°F to +250°F<sup>†</sup> **WARNING\*\***

**Type Of Branding:** Printed Strip

**Suction:** Full Vacuum

**Working Pressure:** 300 psi (Depending on coupling)

**Type Of Coupling:** Cam and Groove or Swaged/Crimped. Clamps—Interlocking or Band.

#### Features:

- Two wire braids
- EPDM cover
- Clear U.H.M.W. polyethylene tube (FDA Approved Materials)
- Easy to maintain
- Dual stainless steel ground wires
- Ultra smooth tube

#### Advantages:

- Resistant to permanent crushing
- Abrasion, chemical and ozone resistant; longer hose life.
- Chemical, petroleum, and solvent resistant; won't contaminate, or discolor fluids
- May be cleaned with steam, open end discharge only
- Static dissipating for a safe connection
- Easy to clean

#### Markets:

- Chemical/Petroleum industry
- In-plant transfer
- Transportation hoses
- Mixing operations
- Chemical handling
- Forest products
- Lumber/Woodworking
- Plywood mfg.
- Pulp processing
- Bulk hauling
- Barges
- Tank trucks
- Railroad tank cars

#### Applications:

- Transfer of acids, chemicals, solvents, and petroleum products.
- Transfer of chemicals and solvents for processing wood products.
- Loading and unloading, pumping, suction, or gravity flow discharge

Product Number	Nominal I.D. (in.)	Nominal I.D. (mm)	Reinf.	Nominal O.D. (in.)	Nominal O.D. (mm)	Approx. lbs. Weight Per 100 Ft.	Maximum Working Press. (psi)	Inches Mercury Vacuum	Minimum Bend Radius (in.)	Minimum Bend Radius (mm)	Standard Length (Ft)
H006032-150*	2	50.8	2 Br	2-19/32	65.9	155	300	25	12	304.8	150

<sup>†</sup>Contact Eaton Technical Support at 1-888-258-0222 for higher temperature applications.

\* MTO - Made to Order - Contact Eaton at 800-833-3837 for availability, minimum run quantity, and ordering information.

**\*\* WARNING** – Elevated temperatures can change chemical resistance rating for Armorcat H0060 hose. Please refer to the Chemical Compatibility information in Section A. This information provides guidelines for the safe use of Eaton Industrial Hose and Tubing. The information shown was gathered through testing, and is accurate for controlled conditions (at 70°F unless otherwise noted). Factors such as concentration, fluid contamination, and extreme temperatures may affect these performance specifications. Contact Eaton for recommendation and assistance. It is the users responsibility to determine if the hose is compatible with the application.

# Chemical Service Hose

Notes

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