

Application Data

Important Safety Information

Read this page before using any of the 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 Boston hose. All these directions and footnotes should be read and understood before specifying or using any of these hoses.

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

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

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

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

Some of the most common problems in the chemical hose industry result from improper hose and coupling

selection, improper assembly techniques, failure to correctly inspect and test hose assemblies, and improper cleaning practices and hose assembly storage techniques.

In turn, these situations can lead to material leakage, spraying, spattering, end blow-offs, explosions, and other situations that may result in serious personal injury and property damage.

Personal injuries caused by improper hose assembly specification, installation, and usage could include cuts and abrasions, serious burns, irreparable eye damage, or even death.

Therefore, for your safety and the safety of others working around you, Eaton strongly urges you to read and comply with all safety information printed in this publication.

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

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

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

Before using any hoses in this catalog, consult the safety section in this catalog, and Chemical Compatibility Chart on page 21 or Boston Hose Chemical Resistance Guidelines. If you do not have the most recent copy, contact Eaton Customer Support at 1-888-258-0222.

Selection of Hose

Selection of the proper Boston 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:

- hose size
- hose length
- hose ends
- fluid conveyed
- bends
- temperature
- hose pressure
- static head pressure
- installation design

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 at 1-888-258-0222.

Application Data

Important Safety Information

Proper Selection of Hose Ends

Selection of the proper Boston 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, please contact Eaton Technical Support at 1-888-258-0222.

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

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.


Coll-O-Crimp Hose, Hose Ends and Assembly Equipment Compatibility


The Coll-O-Crimp Equipment Package, Coll-O-Crimp Hose Ends and Coll-O-Crimp Hose have been engineered and designed as a complete hose assembly system. Each component of the Coll-O-Crimp hose assembly system is compatible with other Coll-O-Crimp components to which it relates. Component compatibility, along with the use of quality components, insures the production of reliable hose assemblies when assembled properly. The use or intermixing of fittings and hose not specifically engineered and designed for use with each other and Coll-O-Crimp equipment is not recommended and may result in the production of unsafe or unreliable hose assemblies. This can result in hose assembly leakage, hose separation or other failures which can cause serious bodily injury or property damage from spraying fluids, flying projectiles, or other substances.


Hose


Material Handling Intro


Important Material Handling Hose Safety Information!


 **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 Boston hose you choose must meet or exceed the required working pressure, and must have a safety factor to allow for surge pressure.

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

MATERIAL HANDLING HOSE BENEFITS

4:1 Safety Factor (Burst: Working Pressure)

- Safer operation. Longer hose life

Environmental Resistance

- The tube and cover materials of the Boston "Big Cats" 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 "Big Cats" 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 "Big Cats." That's why we put the Boston 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.

Hose

Dry Bulk Transfer

 Refer to warnings and safety information on pages 3-4 and page 66.

Boston Lynx Softwall Dry Material



Tube: Natural Rubber/SBR Blend (3/16" tube thickness)
Static Dissipating

Reinforcement: Fiber, 2 Spiral

Cover: SBR

Color: Black

Temperature Range: -10°F To +150°F

Type Of Branding: Printed Strip

Working Pressure: 50 PSI (Depending on coupling)

Type Of Coupling: Cam and Groove, or Combination Nipple. Clamps—Band.

Features:

- SBR cover
- Natural rubber/SBR blend tube 3/16" thick
- Conductive tube
- Continuous printed brand
- Available in longer lengths
- Soft wall hose

Advantages:

- Abrasion, age and weather resistant
- Static dissipating
- Easy identification
- Economical; less waste
- Folds flat for easy storage

Markets:

- Tank Truck
- In-plant Transfer
- Bottling Plant
- Coal Plant


Applications:

- Transfer of dry bulk (cement, sand, lime, etc.); discharge of any abrasive materials
- Transfer of bottle caps
- Transfer of cleaning agents

PRODUCT NUMBER	NOMINAL I.D. (IN.)	NOMINAL I.D. (MM)	SPIRAL	NOMINAL O.D. (IN.)	NOMINAL O.D. (MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	STANDARD LENGTH (FT)
H031964-100	4	101.6	2	4-5/8	117.5	225	50	100

Hose

Dry Bulk Transfer

 Refer to warnings and safety information on pages 3-4 and page 66.

Boston Lynx HD Softwall Dry Material



Tube: Natural Rubber/SBR Blend (1/4" tube thickness)
Static Dissipating

Reinforcement: Fiber, 2 Spiral

Cover: SBR

Color: Black

Temperature Range: -10°F To +150°F

Type Of Branding: Printed Strip

Working Pressure: 50 PSI (Depending on coupling)

Type Of Coupling: Cam and Groove, or Combination
Nipple. Clamps—Band.

Features:

- SBR cover
- Natural rubber/SBR blend tube 1/4" thick
- Conductive tube
- Continuous printed brand
- Available in longer lengths
- Soft wall hose

Advantages:

- Abrasion, age and weather resistant
- Static dissipating
- Easy identification
- Economical; less waste
- Folds flat for easy storage

Markets:

- Tank Truck
- In-plant Transfer
- Bottling Plant
- Coal Plant

Applications:


- Transfer of dry bulk (cement, sand, lime, etc.); discharge of any abrasive materials
- Transfer of bottle caps
- Transfer of cleaning agents

PRODUCT NUMBER	NOMINAL I.D.		SPIRAL	NOMINAL O.D.		APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	MTO* MIN. ORDER QTY.	STANDARD LENGTH (FT)
	(IN.)	(MM)		(IN.)	(MM)				
H052164-100	4	101.6	2	4-13/16	122.2	300	50	500	100
H052180-150	5	127	2	5-7/8	149.2	320	50	—	150

*MTO - Made to Order

Hose

Dry Bulk Transfer

 Refer to warnings and safety information on pages 3-4 and page 66.

Boston Sabertooth Dry Material



Tube: Natural Rubber/SBR Blend
Static Dissipating

Reinforcement: Fiber, 4 Spiral and Helical Wire

Cover: SBR

Color: Black

Temperature Range: -10°F To +160°F

Type Of Branding: Printed Strip

Suction: Full Vacuum

Working Pressure: 100 PSI (Depending on coupling)

Type Of Coupling: Cam and Groove, or Combination Nipple. Clamps—Band.

Features:

- SBR cover
- Natural rubber/SBR blend tube
- Conductive tube
- Continuous printed brand
- Available in longer lengths

Advantages:

- Abrasion, age and weather resistant
- Static dissipating
- Easy identification
- Economical; less waste

Markets:

- Tank Truck
- In-plant Transfer
- Bottling Plant
- Coal Plant


Applications:

- Transfer of dry bulk (cement, sand, lime, plastics, animal feed, etc.); suction/discharge of any abrasive materials
- Transfer of bottle caps
- Transfer of cleaning agents

PRODUCT NUMBER	NOMINAL I.D. (IN.)	NOMINAL I.D. (MM)	SPIRAL	NOMINAL O.D. (IN.)	NOMINAL O.D. (MM)	APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	MIN. BEND RADIUS (IN.)	BEND RADIUS (MM)	STANDARD LENGTH (FT)
H034748-100	3	76.2	4	4	101.6	320	100	9	228.6	100
H034764-100	4	101.6	4	5	127.0	440	100	11	279.4	100

Hose

Hot Air Transfer

 Refer to warnings and safety information on pages 3-4 and page 66.

Boston Wildcat Hot Air



Tube: EPDM

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

Cover: EPDM/Pinpricked

Color: Brown

Temperature Range: +300°F

Type Of Branding: Printed Strip

Suction: Full Vacuum

Working Pressure: 100-150 PSI (Depending on coupling)

Type Of Coupling: Cam and Groove, or Combination Nipple. Clamps—Band.

Features:

- EPDM cover
- EPDM tube
- Continuous printed brand/brown color
- Longer lengths
- Pin pricked

Advantages:

- Abrasion, heat and weather resistant
- Heat resistant (intermittent service to 350°F)
- Easy identification
- Economical; less waste
- Hot air permeation

Markets:

- Tank Trucks
- In-plant Transfer
- Construction

Applications:

- Hot air blower hose; hot, dry, non-oily air applications

PRODUCT NUMBER	NOMINAL I.D.		REINF.	O.D.		APPROX. LBS. WEIGHT PER 100 FT.	MAX. WORKING PRESS. (PSI)	MINIMUM BEND RADIUS		STANDARD LENGTH
	(IN.)	(MM)		(IN.)	(MM)			(IN.)	(MM)	
H034948-100	3	76.2	4 Sp	3-47/64	94.9	230	150	9	228.6	100
H034964	4	101.6	2 Ply	4-39/64	117.1	290	100	11	279.4	50
H034964-100										100
H034964-150										150

Heat resistant (intermittent service to 350°F).