

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.

Couplings

Wolf Series

Wolf Series Hose Couplings Used With Authorized Boston Hose

Selection of the proper hose and hose couplings needs to be made with specific applications in mind. Inadequate attention to selection of hose and couplings can result in hose leakage, bursting, or other failure which can result in serious bodily injury or property damage from steam discharge or flying projectiles.

The following are factors which need to be considered in the selection and use of Wolf Series hose couplings which are designed only to be used with Concord 250 Steam, Hot Tar Pumping and Hydrocarbon Drain hose.


- Hose size
- Temperature
- Hose pressure
- Hose length
- Material conveyed
- Static head pressure
- Bends
- Installation design
- Corrosion requirements


Please review the crimp specifications to determine the correct tooling to be used when crimping Wolf Series hose couplings to Boston hose.

Boston Hoses and Wolf Coupling Compatibility

The Wolf couplings and Boston hoses identified in this literature have been engineered and designed as a complete hose assembly system. Each component of the assembly is compatible with the other. Component compatibility, along with the use of high quality components, ensures the production of reliable hose assemblies. The practice of intermixing hose and couplings not specifically engineered and designed for use together may result in the production of an unsafe and unreliable hose assembly. The Boston warranty is limited to apply only when the Wolf coupling and Boston hoses are assembled to our specifications.

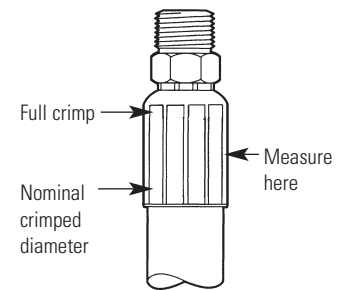
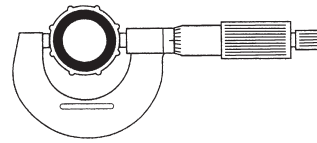
 **WARNING:** Intermixing components not specifically designed for use together may result in an unsafe and unreliable hose assembly, which can result in serious bodily injury or property damage.

 **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 important, may result in serious bodily injury.

 **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.

Couplings

Wolf Series



Wolf Series Hose Couplings Should ONLY Be Used With Authorized Boston Hose

If this is a new installation, please refer to your Coll-O-Crimp Set-Up and Operating Instructions for installation procedures. Refer to page 154 of this catalog for safety information.

After the initial setup of the Coll-O-Crimp press, and purging of the system, the ram return stops may need to be repositioned. These stops are normally found rotated to their "inward" position to allow for a faster cycle time, when using other Coll-O-Crimp tooling. In order to easily accommodate the tooling and crimp the Wolf Series hose couplings, rotate the stops to their "outward" position and proceed as follows.

1. Activate the pump by pulling the activating lever or turning on the switch.
2. During the downward travel of the ram, rotate the stops to their outward position.
3. Release the activating lever or switch that permits the ram to fully retract into the press. The proper Wolf Series tooling may now be inserted into the base plate.

4. Place the proper size Wolf Series hose end onto the hose making sure the hose is bottomed in the hose end.
5. Insert the hose assembly from the bottom of the press and through the collet. The top surface of the collet should be positioned slightly above the ferrule shoulder. The surface of the crimp die should fully cover the coupling shell for a "full crimp." Hold and support the hose assembly from below the press while crimping to ensure that the hose remains completely inserted and bottomed into the hose end.
6. Close the pusher halves on the T-440-1 and activate the pump by turning on the switch. When the pusher contacts the base plate (or spacer ring if applicable), the crimp is complete.
7. Release the lever or switch and remove the hose assembly to inspect.
8. To ensure a proper crimp has been completed, measure the nominal crimp diameter.

Nominal Crimp Diameter Measurement:

Please place this catalog near your Coll-O-Crimp equipment for reference.

Measuring crimp diameters should be a part of the normal hose assembly procedure. To ensure a proper crimp diameter reading, follow these steps:

1. Measure the diameter in the middle of crimped portion of the hose end.
2. Place the caliper or micrometer in a position to allow a measurement across the pressed (flat) portion of the crimp.
3. See crimp diameters in the Hose End & Tool Selector Chart on pages 188-192.

Note:

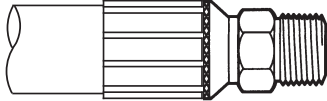
Wolf Series hose couplings are designed for use with 1/2", 3/4" & 1" Concord 250 Steam, 1" Hot Tar Pumping Hose and 3/4" Hydrocarbon Drain.

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.

Couplings

Wolf Series

Hose End Series: Wolf Series



Typical Application: High Pressure and Temperature applications such as steam, hydrocarbon drain, and hot tar transfer

Compatible Hose: Hot Tar Pumping, Concord 250, Concord 250 O.R. and Hydrocarbon Drain

Pressure: Determined by maximum working pressure for hose size.

Material: Zinc Yellow Dichromate finish.

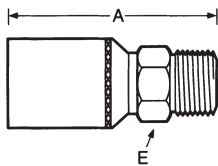
Advantages: Permanent attach coupling for steam hose service.

Ordering Information: Order individually by catalog number.

Assembly Instructions: See Hose End & Tool Selector Chart for Boston crimp specifications.

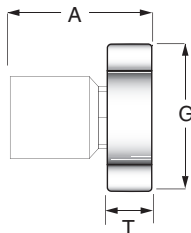
Refer to important safety information found on pages 3-4 of this catalog.

Male Pipe (NPTF) Rigid



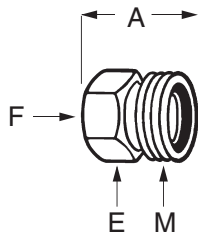
HOSE I.D.	CATALOG NUMBER	THREAD SIZE (NPTF)	A	HOLE DIA.	HEX E
1/2	87-0008-02	1/2—14	2.74	.36	.81
3/4	87-0012-02	3/4—14	3.68	.61	1-1/16
1	87-0016-02	1—11-1/2	4.05	.81	1-3/8

Wing Nut Swivel



HOSE I.D.	CATALOG NUMBER	THREAD SIZE (NPSM)	A	HOLE DIA.	G	T NOM.
1/2	87-0008-01	1—11-1/2	2.76	.36	2.25	.95
3/4	87-0012-01	1-1/2—11-1/2	3.48	.61	3.51	1.06
1	87-0016-01	1-1/2—11-1/2	3.51	.81	3.51	1.06

Female Spud



HOSE I.D.	CATALOG NUMBER	THREAD SIZE M (NPSM)	THREAD SIZE F (NPTF)	A	HOLE DIA.	HEX E
3/4	87-0012-03	1-1/2—11-1/2	3/4—14	1.185	.61	2
1	87-0016-03	1-1/2—11-1/2	1—11-1/2	1.185	.81	2

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.