


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.

Equipment

Collet Kits

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on pages 3-4.



The tools listed above are offered in kits for any given hose type, or collets and tools can be purchased individually by catalog number. Refer to Hose End and Tool Selector Chart at the back of this catalog for proper spacer rings.

T-400-67 • 'U' Series Collet Kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, T-460, T-462, T-465 and T-480.

For Rubber Hose: H105 & H106/Bosflex, H1066/Creamery/Packing, H115 & H116/Performer II, H1571/

T-400-30 • 'E' Series Collet Kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, T-460, T-462, T-465 and T-480.

For Nylon and PVC Hose: H19405/Nyall, H265/Ultraforce, H275/Polyforce and H285/Clearforce

Mineforce, H1776 & H1777/Perfection 300, H1812/Industrial A/W, H1941 & H1942/Nyall, H1981, H1982 & H1983/Marathoner, H6002/Concord Air, H8811/Nitrogen Service, H900/Black Line, H9610/Washdown 1000, H9673/Washdown 1250 and H9949/Shock Safe

T-400-131 • 'M' Series Collet Kit

This kit can be used with the following C-O-C systems: T-400-1, T-420-1, T-440-1, T-460, T-462, T-465 and T-480.

For Rubber Hose: H345/Pressure Washer and H9610/Washdown 1000

T-410-80 • 430 'U' Series No Skive Collet Kit

This kit can be used with the following C-O-C systems: T-410-1 and T-440-1 ONLY.

For Hose H0377/Kelly Power, H11524/Performer II, H177624/Perfection 300, H181224/Industrial A/W, H600224 & H600232/Concord Air, H6008, H600816, H00824, H600832/Concord Yellow Jack, H6009/Bulldog Gold, H961012/Washdown 1000, H9622/Contractors Air

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-113C	Collet – 3/16" (H243 only)
T-400-31C	Collet – 1/4"
T-400-32C	Collet – 5/16"
T-400-33C	Collet – 3/8"
T-400-34C	Collet – 1/2"
T-400-35C	Collet – 3/4"
T-400-36C	Collet – 1"
FS-1200	Label Set/Layout Guide

Spacer Rings not included in T-400-30 kit.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet – 1/4"
T-400-3C	Collet – 3/8"
T-400-4C	Collet – 1/2"
T-400-64C	Collet – 5/8"
T-400-5C	Collet – 3/4"
T-400-6C	Collet – 1"
T-400-12	Collet – 1-1/4"
FS-1100	Label Set/Layout Guide

Spacer Rings not included in T-400-67 kit.


CATALOG NUMBER	DESCRIPTION
T-400-109C	Collet – 1/4"
T-400-110C	Collet – 3/8"
T-400-111C	Collet – 1/2"

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-410-4CN	Collet – 1/2"
T-410-5CN	Collet – 3/4"
T-410-6CN	Collet – 1"
T-410-7CN	Collet – 1-1/4"
T-410-8N	Collet – 1-1/2"
T-410-9N	Collet – 2"
FS-3100	Label Set

Equipment

Collet Kits

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on pages 3-4.



Refer to Hose End and Tool Selector Chart at the back of this catalog for proper spacer rings.

T-420-80 • 430 'U' Series No Skive Collet Kit

This kit can be used with the following C-O-C systems: T-420-1 and T-480. For Hose H11524/Performer II, H177624/Perfection 300, H181224/Industrial A/W, H600224 & H600232/Concord Air, H600816/Concord Yellow Jack, H600920/Bulldog Gold, H961012/Washdown 1000, H962208, H962212, H962216, H962220/Contractors Air

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-420-4CN	Collet - 1/2"
T-420-5CN	Collet - 3/4"
T-420-6CN	Collet - 1"
T-420-7CN	Collet - 1-1/4"
FS-3100	Label Set

T-480-80 • 'U' and 430 'U' Series Collet Kit

This kit can be used with the following C-O-C systems: T-420-1, and T-480 ONLY.

For Rubber Hose: H105 & H106/Bosflex, H1066/Creamery Packing, H115 & H116/Performer II, H1571/Mineforce, H1776 & H1777/Perfection 300, H1812/Industrial A/W, H1941 & H1942/Nyall, H1981, H1982 & H1983/Marathoner, H6002/Concord Air, H600816, H600824, H600832/Concord Yellow Jack, H6009/Bulldog Gold, H8811/Nitrogen Service, H900/Black Line, H9622/Contractors, H9610/Washdown 1000, H9673/Washdown 1250 and H9949/Shock Safe

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet - 1/4"
T-400-3C	Collet - 3/8"
T-400-4C	Collet - 1/2"
T-400-5C	Collet - 3/4"
T-400-6C	Collet - 1"
T-400-10	Spacer Ring - Black
T-400-11	Spacer Ring - Silver
T-400-62	Spacer Ring - Yellow
T-420-25	Adapter Ring for T-400 Series Collets
T-420-4CN	Collet - 1/2"
T-420-5CN	Collet - 3/4"
T-420-6CN	Collet - 1"
T-420-7CN	Collet - 1-1/4"
FS-1100	Label Set/Layout Guide ('U' Series)
FS-3100	Label Set (430 'U' Series)

* For use with H35012, H35016 & H54516 ONLY.

265 'P' Series Collets

For Hose Styles: H265/Ultraforce, H275/Polyforce, H285/Clearforce

These collets can be used with all C-O-C systems.


CATALOG NUMBER	DESCRIPTION
T-400-2C	Collet *
T-400-3C	Collet *
T-400-64C	Collet *

*T-400-2C is used for crimping 1/4" and 3/8" hose and fittings. T-400-3C is used for crimping 1/2" hose.

T-400-64C is used for crimping 3/4" hose and fittings.

Equipment

Collet Kits

 Refer to safety information regarding Coll-O-Crimp hose, hose fittings and assembly equipment compatibility on pages 3-4.



T-410-27 • Conversion Kit

For use if you have collets used on our smaller T-400 Coll-O-Crimp I and you are upgrading to a Coll-O-Crimp II Plus.

The tools listed below are offered in kits for any given hose type. For example, if you have a Coll-O-Crimp II

Plus press and desire to be in the rubber hose business, order T-410-27 conversion kit and T-400-67 for all the collets needed to crimp rubber hose. Collets and tools may also be purchased individually by catalog number.

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-410-10	Spacer Ring – Black
T-410-11	Spacer Ring – Silver
T-410-25	Adapter Die Ring
T-410-41	Yellow Spacer Ring

EXAMPLE: If you desire to crimp hose other than 4 or 6 spiral hose, you will need the T-410-25 Adapter Die Ring which is included in the conversion kit above. This ring allows the use of standard Coll-O-Crimp I tooling, in the Coll-O-Crimp II Plus Press.

Adapter Die Rings

CATALOG NUMBER	DESCRIPTION
T-400-8	Adapter Die Ring for T-400 Collets (T-400-1 Press)
T-410-25	Adapter Die Ring for T-400 Collets (T-410-1, T-440-1 Presses)
T-420-25	Adapter Die Ring for T-400 Collets (T-420-1 Press and T-480 packages)

Die Ring Lubricant

CATALOG NUMBER	DESCRIPTION
T-400-G	1.5 oz. Tube High Efficiency Teflon Grease