

Application Data

Important Safety Information

Read this page before using any of the infor- mation 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

Coll-O-Crimp Portable T-460 & T-462

T-464



For T-460 Tool Box see page 184.

Refer to pages 170 through 178 for Coll-O-Crimp tooling, tooling packages and pumps.



Refer to safety information regarding Coll-O-Crimp crimping procedures on pages 153-154.

The T-460 is a completely portable hose assembly system. Lightweight, hand pump powered, and complete with a self-supporting base, this crimping press features layback positioning up to a 45° angle. With a maximum crimping capacity to 1-3/8" I.D. 2 wire hose, you cannot afford to be in the field without this system.

Capacity: 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 2 wire hose

Mounting: Free standing base

Size: 15" high, 14" wide, 11-1/4" deep

Weight: 62 lbs.

T-466



For T-462 Tool Box see page 184.

Refer to pages 170 through 178 for Coll-O-Crimp tooling, tooling packages and pumps.



Refer to safety information regarding Coll-O-Crimp crimping procedures on pages 153-154.

This portable Coll-O-Crimp features an air/hydraulic pump making it the ideal system if you have the availability of compressed air in your shop or in the field via a portable compressor.

Capacity: 3/16" I.D. 1 fiber braid through 1-3/8" I.D. 2 wire hose

Mounting: Free standing base

Size: 15" high, 14" wide, 11-1/4" deep

Weight: 62 lbs.



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

T-464 • Portable Coll-O-Crimp Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-460	Portable Coll-O-Crimp Press, Hand Pump & Hose Assembly Kit, and Instructions
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-10	Black Spacer Ring
T-400-62	Yellow Spacer Ring
T-460-M	Instructions

Replacement Items:

CATALOG NUMBER	DESCRIPTION
T-460-M	Instructions
T-460-P	Pusher
T-460-SPR	Slide Pull Rod
T-460-SF	Slide Flange
T-460-16	Hose Assembly
T-460-SP	Slide Plate
T-460-2	Hand Pump
T-460-SPK	Slide Pull Knob
W-EQCR-TE009-E	Shroud Decal

T-466 • Portable Coll-O-Crimp Package

Includes one each of the following:


CATALOG NUMBER	DESCRIPTION
T-462	Portable Coll-O-Crimp Press, Air/Hydraulic Pump & Hose Assembly Kit
T-400-2C	'U' Series Collet – 1/4"
T-400-3C	'U' Series Collet – 3/8"
T-400-4C	'U' Series Collet – 1/2"
T-400-10	Black Spacer Ring
T-400-62	Yellow Spacer Ring
T-460-M	Instructions


Replacement Items:

CATALOG NUMBER	DESCRIPTION
T-460-M	Instructions
T-460-SPK	Slide Pull Knob
T-460-P	Pusher
T-460-SPR	Slide Pull Rod
T-460-SF	Slide Flange
T-462-16	Hose Assembly
T-460-SP	Slide Plate
T-462-V	Regulator
T-462-2	Air/Hydraulic Pump
W-EQCR-TE010-E	Shroud Decal

Equipment

T-460 Crimping Procedure

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

 **WARNING** You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious injury to your hand or finger.



1. Slide pusher to back of machine and insert proper size collet halves.

Note: Lubricate tapered cone seat with grease or equivalent before any crimping is done. Continued periodic lubrication is recommended.



2. Select proper Boston Coll-O-Crimp hose end fitting. Insert hose into end fitting.

IMPORTANT

Make sure hose is bottomed on end fitting.



3. Insert hose assembly from below between the collet halves. Align dimples on hose end with top of collet. When crimping 229 'P', 265 'P', 338 'P' and 757 'E' Series hose ends, align top of collar on hose end with top surface of collet.



4. Refer to Tool Selector Chart for proper spacer ring. Place appropriate spacer ring, with proper side up, on top of collet. Hold uncrimped hose assembly in place throughout crimping operation.



5. Pull the pusher positioning handle as far forward as it will go. The pusher will now be in the proper position for crimping. Close valve located on rear of hand pump and start pumping to crimp.



6. When spacer ring contacts die ring, the crimp is complete. Open control valve on hand pump. Allow the ram and pusher to retract. Slide pusher clear and remove spacer ring. Remove crimped assembly from below through the collet halves. Visually inspect the crimped end. To insure a proper crimp has been completed, measure the nominal crimp diameter. Refer to Hose End and Tool Selector Chart in the back of this catalog for nominal crimp diameters of finished assemblies.

Equipment

T-462 Crimping Procedure



1. Slide pusher to back of machine and insert proper size collet halves.

Note: Lubricate tapered cone seat with grease or equivalent before any crimping is done. Continued periodic lubrication is recommended.



2. Select proper Boston Coll-O-Crimp hose end fitting. Insert hose into end fitting.

IMPORTANT

Make sure hose is bottomed on end fitting.



3. Insert hose assembly from below between the collet halves. Align dimples on hose end with top of collet. When crimping 229 'P', 265 'P', 338 'P' and 757 'E' Series hose ends, align top of collar on hose end with top surface of collet.



4. Refer to spacer ring selector chart located in the back of this catalog. Place appropriate spacer ring, with proper side up, on top of collet. Hold uncrimped hose assembly in place throughout crimping operation.



5. Holding the uncrimped hose assembly in place throughout the crimping operation, pull the pusher positioning handle as far forward as it will go. The pusher will now be in the proper position for crimping. Hold down on activation button and start crimping.



6. When spacer ring contacts die ring, the crimp is complete. Hold the red lever down to allow the pusher to retract. Slide pusher clear and remove spacer ring. Remove crimped assembly from below through the collet halves. Visually inspect the crimped end. To insure a proper crimp has been completed, measure the nominal crimp diameter. Refer to Hose End and Tool Selector Chart in back of catalog for nominal crimp diameters of finished assemblies.



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



WARNING

You must hold the hose assembly in place from below throughout the crimping operation. Do not place fingers or hands at the crimping point during operation. Failure to follow this procedure could result in serious injury to your hand or finger.