


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

Coll-O-Crimp T-605VS



The T-605VS is designed for high-speed production crimping of hydraulic and fluid transfer hose assemblies. Equipped with Boston "bump-and-skirt" dies, the T-605VS produces OEM-quality crimps on Eaton 'U', '430U' and 'E' series hose ends. Optional flat-crimp dies allow crimping of other Boston hose ends and Boston Wolf Couplings.


Capacity: 3/16" I.D. fiber-braid through 2" 6-spiral hydraulic, pneumatic and fluid transfer hoses

Mounting: Tool Stand or Bench Mount

Weight: 293 lbs.

Standard Voltage: 230 three-phase

T-605VS-1 • Variable Crimp System ONLY!

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

Refer to pages 148 for Coll-O-Crimp tooling, tooling packages and pumps.

The Coll-O-Crimp power source has the pressure relief valve set at 10,000 PSI. Damage to the press will result if higher pressures are used and warranty will be voided.

T-605VS • T-605 Crimping System Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605VS-1	Variable Crimp System
T-605-CS	QC Tool Stand
T-605-80FP	Complete Set (17) Dies for Flat Crimp
T-605-104U	'U' Series, 'S' Series and 265 'P' Series Die Sets
T-605-430U	430 'U' Series Die Set

T-605VS-U • T-605 Crimping System Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605VS-1	Variable Crimp System
T-605-CS	QC Tool Stand
T-605-104U	'U' Series, 'S' Series and 265 'P' Series Die Sets
T-605-430U	430 'U' Series Die Set

T-605VS-B • T-605 Crimping System Package

Includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605VS-1	Variable Crimp System
T-605-CS	QC Tool Stand
T-605-80FP	Complete Set (17) Dies for Flat Crimp

Additional T-605 Crimping System Parts

CATALOG NUMBER	DESCRIPTION
T-605-CS	QC Tool Stand
T-605-TH	Tool Holder - Wall or Floor Mounted
T-605-DH	Quick Change Die Holder
T-605-DP	Set of retaining Pins for Dies

Equipment

Coll-O-Crimp T-605VS



Collets may be ordered individually.

T-605-104U • 'U' Series, 'S' Series & 265 'P' Series Die Set for Crimping System T-605VS


Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605-10404	Crimp dies for 04 'U', 04 'S', 26504 'P' & 26506 'P' hose ends
T-605-10406	Crimp dies for 06 'U', 06 'S' & 26508 'P' hose ends
T-605-10408	Crimp dies for 08 'U' & 08 'S' hose ends
T-605-10410	Crimp dies for 10 'U' & 26512 'P' hose ends
T-605-10412	Crimp dies for 12 'U' & 12 'S' hose ends
T-605-10416	Crimp dies for 16 'U' & 16 'S' hose ends
T-605-10420	Crimp dies for 20 'U' & 20 'S' hose ends

T-605-430U • 430 'U' Series Die Set for Crimping System T-605VS

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605-43008	Crimp dies for 43008 'U' hose ends
T-605-43012	Crimp dies for 43012 'U' hose ends
T-605-43016	Crimp dies for 43016 'U' hose ends
T-605-43020	Crimp dies for 43020 'U' hose ends
T-605-43024	Crimp dies for 43024 'U' hose ends
T-605-43032	Crimp dies for 43032 'U' hose ends

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

T-605-80FP • Complete Set (17) Dies for Flat Crimp*

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605-FP10	Crimp range 10-12mm (0.394"-0.472")
T-605-FP12	Crimp range 12-14mm (0.472"-0.551")
T-605-FP14	Crimp range 14-16mm (0.551"-0.629")
T-605-FP16	Crimp range 16-19mm (0.629"-0.748")
T-605-FP19	Crimp range 19-22mm (0.748"-0.866")
T-605-FP22	Crimp range 22-26mm (0.866"-1.023")
T-605-FP26	Crimp range 26-30mm (1.023"-1.181")
T-605-FP30	Crimp range 30-34mm (1.181"-1.338")
T-605-FP34	Crimp range 34-39mm (1.338"-1.535")
T-605-FP39	Crimp range 39-45mm (1.535"-1.771")
T-605-FP45	Crimp range 45-51mm (1.771"-2.007")
T-605-FP51	Crimp range 51-57mm (2.007"-2.244")
T-605-FP57	Crimp range 57-63mm (2.244"-2.480")
T-605-FP63	Crimp range 63-69mm (2.480"-2.716")
T-605-FP69	Crimp range 69-75mm (2.716"-2.953")
T-605-FP74	Crimp range 74-80mm (2.913"-3.149")
T-605-FP78	Crimp range 78-87mm (3.071"-3.425")

* For use when a full length flat crimp is required (i.e., only for Boston 'M' Series hose ends and for crimping Boston industrial hose). Not recommended for 'U' Series hose ends. Please refer to the Hose End & Tool Selector Chart for nominal crimp diameters for Boston industrial hoses with Boston 'U', 430 'U' and 'M' Series hose ends.

T-605-069E • 430 'U' Series Die Set for Crimping System T-605VS

Kit includes one each of the following:

CATALOG NUMBER	DESCRIPTION
T-605-E1	Crimp dies for 04 'E' & 06904 'E' hose ends
T-605-E2	Crimp dies for 05 'E' & 06905 'E' hose ends
T-605-E3	Crimp dies for 06 'E' & 06906 'E' hose ends
T-605-E4	Crimp dies for 08 'E' & 06908 'E' hose ends
T-605-E5	Crimp dies for 06908 'E' & 06910 'E' hose ends
T-605-E6	Crimp dies for 06910 'E' hose ends
T-605-E7	Crimp dies for 12 'E' & 06912 'E' hose ends
T-605-E8	Crimp dies for 16 'E' & 06916 'E' hose ends
T-605-E9	Crimp dies for 06920 'E' hose ends