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As the world's demand for high-efficiency hydraulic systems for mobile and stationary applications increase, Eaton is helping to solve these challenges more reliably, efficiently, and sustainably. Our goal is simple; to provide unique solutions across a wide range of markets that keep businesses on the leading edge of change. Visit Eaton.com/hydraulics/fusion.

That's the power of One Eaton.

Serving eight key segments - sharing one focus



Alternative Energy

Making energy sources technically practical and economically sound requires the kind of control made possible by high-quality components. When Eaton is on the inside, you will experience the reliable, consistent performance to create and capture energy—making renewable energy an every-day energy.



Discrete Manufacturing

Produce at peak efficiency with the superior precision and repeatability of Eaton products. Eaton hydraulic components provide the precise control and consistent operation required for virtually every step in your manufacturing operation. With Eaton, we'll help you redefine the meaning of raw productivity.



Oil & Gas

As the oil & gas industry continues to face further globalization and consolidation, large-scale organizations that can meet your needs in every corner of the world are more difficult to find. At Eaton, our portfolio of products is only surpassed by our tremendous reach.



Processing

Whatever your industry, no matter which processes you manage, Eaton parts and systems help keep you up and running. Our components make equipment more efficient and easier to use, so you get optimal machine performance and maximum productivity.



Agriculture & Forestry

There's a reason farming and forestry are called "working the land." These segments involve some of the hardest work and longest hours of any sector in the economy. Your productivity and profitability depend on the way you manage time and tasks.



Commercial Vehicles

Eaton technologies can make your driving operation more successful. Greater comfort and productivity help increase driver retention, while reduced emissions, leaks, and noise improve environmental performance. Increased efficiencies overall mean lower costs and higher net revenue.



Material Handling

Eaton hydraulic systems provide the precise control and consistent operation required for material handling and utility work. With a broad selection of products and solutions built in, Eaton helps make you a master of your domain.



Construction & Mining

When you work on a large scale, even the details are big. You need to trust every part of the equipment that lets you handle construction and mining jobs. For reliable components that deliver consistent performance in extreme conditions, turn to Eaton.

Eaton is a leading diversified power management company

Eaton provides reliable, efficient and safe power management for a growing number of industries.

Understanding and helping our customers succeed

- Listening and understanding to requirements and business drivers
- Delivering solutions with value propositions to solve the critical business needs

Knowing what's important to our customers and integrating that knowledge into the fabric of our business

- ...to deliver innovative, quality products
- · ...to respond fast
- ...to provide dedicated customer service and support around the globe

Our strength is global reach with local responsiveness and support

- Customers served in more than 150 countries
- Diverse channels ensure reliable availability and support
- Design and engineering teams provide support for standard products and custom solutions
- Eaton experts offer efficient product and application training



Everflex

Eaton has been a pioneer in the production of hoses made with Teflon® resin. Everflex hoses are ideally suited for use in applications where high and low temperature, chemical resistance, low coefficient of friction, flexibility, and non-aging characteristics are required. Since 1961, Everflex has been the premier brand of hose products made from Teflon resin for use in truck, chemical, hot melt, paper and pulp, hot presses, steam, packaging, paint, machinery and many other demanding applications.





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Smooth Bore Hose

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Convoluted Hose and Hose Ends

Everswage Swaged Hose Ends, Components and Fitting

E-Series Crimp Hose Ends and Fittings

Field Attachable Fittings

Everflex Hose Accessories

Assembly Equipment

Chemical Resistance Chart

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Design Considerations Basic Considerations in Hose Selection

Smooth Bore vs. Convoluted

The primary differentiators between smooth and convoluted tubes are size and bend radius. Smooth bore hoses are generally only available in tube diameters of one inch or less, and they will have much greater minimum bend radii. For example, one inch smooth bore hose has a minimum bend radius of 12 inches while the same size convoluted hose has a minimum bend radius of only three inches. Convoluted hoses are also more resistant to collapse in vacuum. Smooth bore hoses tend to have a lower price than same-sized convoluted hoses.

Wall Thickness

In applications where a hose is flexed severely, thicker

walls will provide better resistance to buckling. Thick wall hoses are also less permeable with both fluids and gases than thin wall hoses. Thin wall hoses tend to have a lower price because they contain less material. Most Everflex hoses are classified as either thin wall (.030") or thick wall (.040").

Fittings

Hoses made with Teflon can use crimp, swage, or reusable fittings. The choice is largely one of individual preference, since there are no significant performance differences between the systems.

Interior & Exterior Treatments

Hoses exposed to severe environmental conditions

can be fitted with several different forms of external protection. Options include extruded thermoplastic and silicone sleeves, slip-over or integral fire-resistant sleeves, and a variety of metallic and fabric protective braids. Hoses used in vacuum applications, particularly at high temperatures, are often fitted with internal coils or sleeves to prevent collapse.

Conductive vs. Non-Conductive Teflon

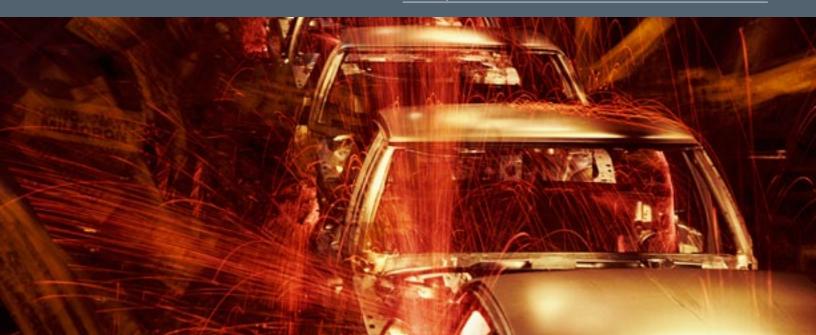
Hoses, typically fuel lines carrying low-viscosity hydrocarbons at high flow rates, tend to build-up static electrical charges that can arc through the Teflon to the braid. This can create a pinhole in the Teflon. Specifying conductive Teflon will allow the static charge to bleed off harmlessly to the fitting.

Braid Material

304 Stainless is the baseline braid material for most hoses made with Teflon. 316 Stainless is the recommended material for marine hose applications. Monel is available for hoses exposed to severe corrosion environments, and bronze is used in applications together or against other pieces of equipment. In the latter case, the excellent lubricity of bronze often can stainless steel. Braid material is also a major factor in the pressure rating for a given hose. Special braid materials and configurations are available to handle pressures up to 5,000 psi.

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This catalog is intended as a guide in selecting the proper hose and fittings for the applications listed herein. It contains cautions, warnings, guidelines and directions for the safe and proper use of Everflex hose. All these directions and footnotes should be read and understood before specifying or using any of these hoses.

This symbol is used when personal injury is possible.

WARNING: A failure of Everflex hose in service can result in personal injury, death or damage of property.

Do not use Everflex hose at temperatures or pressures above those recommended by the manufacturer. All operators must be thoroughly trained in the care and use of this hose and must at all times wear protective clothing. A hose or system failure could cause the release of a poisonous, corrosive or flammable material.

WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals being conveyed in the hoses.

WARNING: In the case of low viscosity hydrocarbon fluids moving at high flow rates, it is necessary to use conductive tubed Everflex hose products.

WARNING: Selection of the proper end fittings for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose ends blowing off the hose, leading to serious personal injury, death or property damage.

The use or intermixing of fittings and hose not specifically engineered and designed for use with the Eaton Everflex equipment may result in the production of an unsafe or unreliable hose assembly. The Eaton limited warranty is contingent upon the fact that only Eaton Everflex end fittings and Eaton Everflex hose be used on Eaton Everflex assembly equipment.

In order to avoid serious bodily injury or property damage resulting from selection of the wrong end fitting, you should carefully review the information in this catalog.

Make Your Selection With Safety In Mind

- Select a hose identified as steam hose construction.
- Identify the type of service the steam hose is required to accomplish and review these considerations:
 - a) Is the hose manually handled?
 - b) What is the anticipated frequency of use?
 - c) What is the actual pressure of the steam service?
 - d) Is it subject to surges or peak pressures?
 - e) What is the temperature of the steam?
 - f) Saturated (wet) or superheated (dry) steam?
 - g) What are the external conditions in the area where the hose will be used?

Recognize that spillage, or accumulations of corrosive chemicals or petroleum based materials externally, can have a deteriorating effect on the hose cover.

Make Sure the Hose is Installed Properly

- Avoid extreme flexing of the hose near the coupling. If necessary, use elbows in the piping system to assure a straight line connection with the hose.
- Installing and using a shut-off valve between the steam source and the hose will maximize service life and operator safety. Eaton considers such a valve mandatory for safe operation.
- The use of spring guards can relieve some of the acute flexing encountered in heavy manual handling applications.
- Provide a suitable means of storing the hose when not in use. A permanent rack or tray will minimize the damage to the hose in storage. Do not hang the hose on a hook, nail, or other device which could cut or damage the hose.

Common Sense with Steam Hose

- Provide operators
 with adequate safety
 clothing, include gloves,
 rubber boots, full length
 protective clothing, and
 eye protection. The
 objective is to provide
 protection from scalding
 burns resulting from
 splash-back of steam or
 hot water.
- Ensure that the work area is free of tripping hazards and other clutter.
- Do not allow the hose to remain pressurized when not in service. Turning off the pressure can provide dramatic increases in steam hose service life.
- The best protection from accidents is the anticipation that they could occur.

Periodic Maintenance of Steam Hose

All steam hoses are expected to wear out in time. It is important to continually be on the look-out for hose that has deteriorated to the point where it can no longer provide safe service. The following guidelines can help in that determination. Operators should be aware of the obvious signs of trouble. They include:

- Steam leakages at the coupling ends or anywhere along the length of the hose.
- Flattened or kinked areas which have damaged the hose.

When any of the above abnormalities appear, it is good safety sense to immediately remove the hose from service. Once removed, the hose can be carefully inspected before further use.

WARNING: Exposure to steam is hazardous. If not properly controlled, steam can cause serious injury, death, or damage to property. In order to avoid serious injury, death, or damage to property, 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. Carefully read and understand the safety information provided on this page and the following pages.

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: 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 importantly, may also result in serious injury.

Temperatures of Saturated Steam at Various Pressures

Lbs. Per Sq. Inch Pressure	Degrees Fahrenheit	Degrees Centigrade	Lbs. per Sq. Inch Pressure	Degrees Fahrenheit	Degrees Centigrade
0	212.0	100.0	110	344.1	173.4
5	227.1	108.4	115	347.2	175.1
10	239.4	115.2	120	350.1	176.7
15	249.8	121.0	125	352.9	178.3
20	258.8	126.0	130	355.6	179.8
- <u></u>					
22	261.2	127.8	135	358.3	181.3
24	265.3	129.6	140	360.9	182.7
26	268.3	131.3	145	363.4	184.1
28	271.2	132.9	150	365.9	185.5
30	274.1	134.5	155	368.2	186.8
				070.0	100.1
32	276.8	136.0	160	370.6	188.1
34	279.3	137.4	165	373.9	189.4
36	281.8	138.8	170	375.3	190.7
38	284.4	140.2	175	377.4	191.9
40	286.7	141.5	180	379.6	193.1
42	200.0	142.0	105	201.7	104.2
42	289.0	142.8	185	381.7	194.3
44	291.2	144.0	190	383.7	195.4
46	293.5	145.3	195	385.9	196.6
48	295.5	146.4	200	387.9	197.7
50	297.7	147.6	205	398.8	198.8
52	299.9	148.7	210	391.6	199.8
54	301.6	149.8	215	392.9	200.5
56	303.6	150.9	220	395.4	201.7
58	305.4	151.9	225	397.2	202.9
60	307.4	153.0	230	399.0	203.9
	00711		200	000.0	
62	309.2	154.0	235	400.7	204.8
64	310.8	154.9	240	402.5	205.8
66	312.6	155.9	245	404.2	206.8
68	314.2	156.8	250	406.1	207.8
70	316.0	157.0	255	407.7	208.7
72	317.7	158.7	260	409.4	209.7
74	319.3	159.6	265	411.0	210.6
76	320.9	160.5	270	412.6	211.4
78	322.3	161.3	275	414.2	212.3
80	323.8	162.1	280	415.7	213.2
85	327.6	164.2	300	421.0	216.1
90	331.2	166.2	350	436.5	224.7
95	334.6	168.1			
100	337.8	169.9			ing water) and increases in temperature as pressure
105	341.1	171.7	increases. See safety info	rmation on page A-3.	









- Everflex hose made from Teflon resin has excellent temperature characteristics. It works well in high ambient, fluid or gas media temperatures (+450°F). It works equally well in cryogenic applications (-65°F).
- Everflex hose has a broad range of chemical resistance. It is inert to most commercial chemicals, acids, alcohols, coolants, elastomers, petroleum compounds, solvents,

- vinyls, synthetic lubricants, and hydraulic fluids.
- Chemical Resistance Guidelines are found on pages I-2.
- Everflex hose withstands continuous flexing, vibration, or impulse.
- Everflex hose is compatible with steam. It absorbs no moisture, hot or cold.
- Everflex hose is noncontaminating
 Conveyed materials, fluids, or gases will not

- contaminate in service. It is easy to clean and sterilize for FDA or pharmaceutical applications.
- Everflex hose has high flow rates. Its low coefficient of friction with anti-stick properties insures continuous lower pressure drop during service with good pressure rating.
- Everflex hose resists deterioration. It is impervious to weather and can be stored for long periods of time without aging.

- Everflex hose has a long life expectancy when applied within its temperature and pressure ratings.
- Everflex hose can handle many substances such as adhesives, asphalt, dyes, greases, glue, latex, lacquers and paints. It has no carbon build-up when used as a compressor discharge line.









Application Data

How To Order Hose Length Information Warranty

How To Order:

1. Specify quantity required:

- a. For bulk hose in random lengths, state quantity in feet. Ex. 150 ft. S-12.
- b. For specified ("cut") lengths of hose, state number of pieces. 10 pcs. Ex. S-12-00200.
- c. Eaton reserves the right to ship +10% of the maximum reel length quantity or bulk quantity ordered.

2. Specify part number:

- a. For bulk hose, state hose style number and dash size. Ex. 100 ft. S-12.
- b. For cut lengths, state hose style number and dash size plus length to the nearest 1/8 inch. Ex. 10 pcs. S-12-00125 indicates 10 pieces S-12 hose, length of each piece 12-5/8 inches (the fifth digit of the length designator represents eighths of an inch).

3. Bulk Everflex hose is supplied in the following length patterns:

Sizes: -3 through -12

- No less than 75% in lengths 25 feet or longer
- No more than 25% in lengths 5 feet to 24 feet

Sizes: -14 through -24

- No less than 65% in lengths 25 feet or longer
- No more than 35% in lengths 5 feet to 25 feet

4. For large quantities or long lengths, please consult Eaton for price and availability.

Note: Length tolerance for cut hose lengths, assemblies and sleeves is:

- Up to and including 12": +/- 1/8"
- Above 12" to and including 18": +/- 3/16"
- Above 18" to and including 36": +/- 1/4"
- Above 36": +/- 1% of length

Hose Length Information

Average Length Patterns

Part Number	Minimum Length Ft.	Average Length Ft.	Maximum Length Ft.
S-3	5	400	700
S-4	5	170	500
S-5	5	130	400
S-6	5	100	300
S-8	5	150	500
S-10	5	300	600
S-12	5	240	500
S-16	5	140	300
S-16Z	5	30	58
S-20Z	5	30	58
SC-3	5	200	400
SC-4	5	210	300
SC-5	5	170	200
SC-6	5	65	200
SC-8	5	35	150
SC-10	5	60	100
SC-12	5	100	120
SC-16	5	50	75
S-4TW	5	275	700
S-5TW	5	85	500
S-6TW	5	160	600
S-7TW	5	70	300

Part Number	Minimum Length Ft.	Average Length Ft.	Maximum Length Ft.
S-8TW	5	115	300
S-10TW	5	110	300
S-12TW	5	320	600
S-14TW	5	160	500
S-16TW	5	200	400
S-18ZTW	5	80	150
SC-4TW	5	200	300
SC-5TW	5	100	200
SC-6TW	5	150	200
SC-7TW	5	60	150
SC-8TW	5	60	150
SC-10TW	5	60	140
SC-12TW	5	200	400
SC-14TW	5	200	450
SC-16TW	5	90	200
SC-18ZTW	5	80	150
8012/8512	5	45	90
8016/8516	5	45	80
8020/8520	5	30	70
8024/8524	5	30	60
803218532	5	30	45

Warranty

Eaton Hydraulics warranty policy is located at www.hydraulics.eaton.com/warranty

Everflex Smooth Bore Hose

Everflex Smooth Bore hose made from Teflon resin is specified in many of the most difficult applications across various industries. The extruded tube has excellent flex life, high temperature resistance and chemical resistance. Additionally, Everflex hose is an excellent choice in applications requiring steam cleaning of an assembly or transfer of a highly viscous media, such as adhesives, paints or food products. The 304 stainless steel wire reinforcement provides the strength necessary to carry the working pressure and the durability to withstand harsh environments. The optional 316 stainless steel braid is ideal for more corrosive environments. High temperature hydraulic and pneumatic systems, such as those found in steel mills, foundries and transit buses, are ideal locations to offer Everflex hose as a problem solver. Materials meet 21-CFR-177.1550 for use in food handling applications.

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- Hi-PSI Series	B-8
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S-Series

Smooth Bore

S-Series

Smooth Bore Non-Dissipating



Everflex S-Series tube is reinforced with 304 or 316 stainless steel wire. All sizes are made from virgin Teflon resin and have a minimum wall thickness of .040". That is 33% more

material than most other manufacturers offer. The additional material results in improved bend radius, kink resistance and slows permeation of gases. The minimum bend radius is

measured in inches to the inside bend. Multiply the bend radius by 1.25 for dynamic applications.

Construction

- Non-conductive Teflon inner tube
- One or two layers of stainless steel braid

Applications

- Steam
- Compressor discharge
- Chemical transfer

Temperature Range

-54°C to +230°C (-65°F to +450°F)

Number	Hose I.D.		Hose O.D.		Worki Pressi		Min. Burst		Min. Bend		Hose Weight		Vacuum Service	Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	In/HG	
S-3	3.2	0.13	6.8	0.27	241	3,500	965	14,000	25.4	1.00	0.07	0.05	28	Everswage
S-4	4.8	0.19	8.6	0.34	206	3,000	827	12,000	38.1	1.50	0.12	0.08	28	Everswage
S-5	6.4	0.25	10.2	0.4	206	3,000	827	12,000	50.8	2.00	0.13	0.09	28	Everswage
S-6	7.9	0.31	11.7	0.46	172	2,500	689	10,000	88.9	3.50	0.18	0.12	28 ‡	Everswage
S-8	10.4	0.41	14.7	0.58	137	2,000	551	8,000	114.3	4.50	0.22	0.15	28 ‡	Everswage
S-10 *	12.7	0.50	17.3	0.68	120	1,750	482	7,000	127.0	5.00	0.30	0.20	28 ‡	Everswage
S-12 *	15.7	0.62	20.3	0.8	103	1,500	413	6,000	152.4	6.00	0.34	0.23	28 ‡	Everswage
S-16	22.4	0.88	27.2	1.07	68	1,000	275	4,000	228.6	9.00	0.46	0.31	12 ‡	Everswage
S-16Z ◊	22.4	0.88	28.7	1.13	86	1,250	344	5,000	185.4	7.30	0.73	0.49	12 ‡	Everswage
S-20Z ◊	28.4	1.12	35.3	1.39	68	1,000	275	4,000	279.4	11.00	0.97	0.65	12 ‡	Everswage
316 Stair	nless Ste	el Braid												
S316-4	4.8	0.19	8.6	0.34	206	3,000	827	12,000	38.1	1.50	0.12	0.08	28	Everswage
S316-6	7.9	0.31	11.7	0.46	172	2,500	689	10,000	88.9	3.50	0.18	0.12	28 ‡	Everswage
S316-8	10.4	0.41	14.7	0.58	103	1,500	414	6,000	114.3	4.50	0.22	0.15	28 ‡	Everswage
S316-12	15.7	0.62	20.1	0.78	86	1,250	345	5,000	152.4	6.00	0.34	0.23	28 ‡	Everswage
S316-16	22.4	0.88	27.2	1.07	62	900	248	3,600	228.6	9.00	0.46	0.31	12 ‡	Everswage

316 Stainless braided hose can be used in marine applications and other environments where corrosion is an issue.



WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

- ◊ "Z" Designates a double braid of 304 stainless steel wire.
- The operating pressure of 1/2" I.D. hoses are lowered to 1500 psi and 5/8" I.D. hoses are lowered to 1250 psi when Brass Everswage fittings
- Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected. For a list of internal support coils available, see page G-3.

SC-Series

Smooth Bore Static Dissipating



SC-Series** hose is identical to the S-Series with one exception. SC hose has an internal conductive static dissipating tube that provides a path to the hose

end fittings for applications where flow induced electrostatic charges can occur. The minimum bend radius is measured in inches to the inside bend. Multiply

the bend radius by 1.25 for dynamic applications.

** Carbon black used meets the requirements of 21CFR178.3297 for FDA compliance.

Construction

- Conductive Teflon inner tube
- One or two layers of stainless steel braid
- A minimum wall thickness of .040".

Applications

- Steam
- · Compressor discharge
- · Chemical transfer

Temperature Range

-54°C to +230°C (-65°F to +450°F)

Number	Hose I.D.		Hose O.D.		Worki Pressi		Min. Burst		Min. Bend		Hose Weight		Vacuum Service	Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	In/HG	
SC-3	3.2	0.13	6.8	0.27	241	3,500	965	14,000	25.4	1.00	0.07	0.05	28	Everswage
SC-4	4.8	0.19	8.6	0.34	206	3,000	827	12,000	38.1	1.50	0.12	0.08	28	Everswage
SC-5	6.4	0.25	10.2	0.4	206	3,000	827	12,000	50.8	2.00	0.13	0.09	28	Everswage
SC-6	7.9	0.31	11.7	0.46	172	2,500	689	10,000	88.9	3.50	0.18	0.12	28 ‡	Everswage
SC-8	10.4	0.41	14.7	0.58	137	2,000	551	8,000	114.3	4.50	0.22	0.15	28 ‡	Everswage
SC-10 *	12.7	0.50	17.3	0.68	120	1,750	482	7,000	127.0	5.00	0.30	0.20	28 ‡	Everswage
SC-12 *	15.7	0.62	20.3	0.8	103	1,500	413	6,000	152.4	6.00	0.34	0.23	28 ‡	Everswage
SC-16	22.4	0.88	27.2	1.07	68	1,000	275	4,000	228.6	9.00	0.46	0.31	12 ‡	Everswage
316 Stair	ıless Ste	el Braid												
SC316-4	4.8	0.19	8.6	0.34	206	3,000	827	12,000	38.1	1.50	0.12	0.08	28	Everswage
SC316-6	7.9	0.31	11.7	0.46	172	2,500	689	10,000	88.9	3.50	0.18	0.12	28 ‡	Everswage
SC316-8	10.4	0.41	14.7	0.58	103	1,500	414	6,000	114.3	4.50	0.22	0.15	28 ‡	Everswage
SC316-12	15.7	0.62	20.1	0.78	86	1,250	345	5,000	152.4	6.00	0.34	0.23	28 ‡	Everswage
SC316-16	22.4	0.88	27.2	1.07	62	900	248	3,600	228.6	9.00	0.46	0.31	12 ‡	Everswage

316 Stainless braided hose can be used in marine applications and other environments where corrosion is an issue.



WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

- * The operating pressure of 1/2" I.D. hoses are lowered to 1500 psi and 5/8" I.D. hoses are lowered to 1250 psi when Brass Everswage fittings are used.
- 4 Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected. For a list of internal support coils available, see page G-3.

S-TW Series

Smooth Bore

S-TW Series

Smooth Bore Non-Dissipating



* Working Pressure Ratings with Flat Crimped E-Series Fittings Only

S-4TW	3,500 psi
S-6TW	2,750 psi
S-8TW	2,250 psi
S-10TW	2,000 psi
S-12TW	1,500 psi
S-16TW	1,200 psi
S-18ZTW	1,200 psi

Everflex S-TW Series tube is reinforced with 304 or 316 stainless steel wire and has a minimum wall thickness of .030". S-TW hose is available as an alternative

Construction

- Non-conductive Teflon inner tube
- One or two layers of stainless steel wire braid

where competitors' thin wall products are specified and S-Series hose can not be substituted. The minimum bend radius is measured in inches to the inside bend.

Applications

- Steam
- Compressor discharge
- Chemical transfer
- Meets SAE 100R14A

Multiply the bend radius by 1.25 for dynamic applications. 316 Stainless braid has can be used in marine and other environments where corrosion is an issue.

Temperature Range

-54°C to +230°C (-65°F to +450°F)

Number	Hose I.D.		Hose O.D.		Workii Pressu		Min. Burst	t	Min. Bend		Hose	Weight	Vacuum Service	Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	In/HG	
S-4TW	4.8	0.19	8.2	0.32	207 *	3,000 *	827	12,000	50.8	2.00	0.09	0.06	28	Everswage
														Field Attachable
														E-Series/ER-Series
S-5TW	6.4	0.25	10.1	0.40	207	3,000	827	12,000	76.2	3.00	0.12	0.08	28	Everswage
														Field Attachable
														E-Series
S-6TW	7.9	0.31	11.6	0.46	172 *	2,500 *	689	10,000	101.6	4.00	0.15	0.10	28 ‡	Everswage
														Field Attachable
														E-Series/ER-Series
S-7TW	9.6	0.38	13.4	0.53	138	2,000	552	8,000	127.0	5.00	0.16	0.11	28 ‡	E-Series
S-8TW	10.4	0.41	14.3	0.56	138 *	2,000 *	552	8,000	127.0	5.00	0.18	0.12	28 ‡	Everswage
														Field Attachable
					,									E-Series/ ER-Serie
														ER-Series
S-10TW*	12.7	0.50	16.8	0.66	121 *	1,750 *	483	7,000	165.1	6.50	0.25	0.17	28 ‡	Everswage
					,									Field Attachable
			1											E-Series/ER-Series
S-12TW*	15.7	0.62	20.1	0.79	103 *	1,500 *	414	6,000	190.5	7.50	0.28	0.19	28 ‡	Everswage
														Field Attachable
			1											E-Series/ER-Series
S-14TW	19.1	0.75	23.3	0.92	69	1,000	276	4,000	215.9	8.50	0.37	0.25	28 ‡	E-Series
S-16TW	22.4	0.88	26.9	1.06	69 *	1,000 *	276	4,000	228.6	9.00	0.40	0.27	12 ‡	Everswage
					'				1					Field Attachable
S-18ZTW ◊	25.4	1.00	31.6	1.24	69	1,000	276	4,000	304.8	12.00	0.79	0.53	12 ‡	E-Series
316 Stainles	Steel E	Braid								-				
S-4TW316SS	4.8	0.19	8.2	0.32	207	3,000	827	12,000	50.8	2.00	0.09	0.06	28	Everswage
						·		·						Field Attachable
														E-Series
S-16TW316SS	22.4	0.88	26.9	1.06	62	900	248	3,600	228.6	9.00	0.40	0.27	12 ‡	Everswage
								•						Field Attachable
														E-Series



MARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

^{*} The operating pressure of 1/2" I.D. hoses are lowered to 1500psi and 5/8" I.D. hoses are lowered to 1250 psi when Brass Everswage fittings are used.

[‡] Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected. For a list of internal support coils available, see page G-3.

SC-TW Series

SC-4TW

SC-6TW

SC-8TW

SC-10TW

SC-12TW

SC-16TW

SC-18ZTW

Smooth Bore Static Dissipating



one exception. SC-TW hose has an internal conductive static dissipating tube that

* Working Pressure Ratings with Flat Crimped E-Series Fittings Only

provides a path to the hose end fittings for applications where flow induced electrostatic charges can occur. The minimum bend radius is measured in inches to the inside bend. Multiply the bend radius by 1.25 for dynamic applications.

** Carbon black used meets the requirements of 21CFR178.3297 for FDA compliance.

Construction

3,500 psi 2,750 psi 2,250 psi 2,000 psi 1,500 psi 1,200 psi

1,200 psi

- Conductive Teflon inner tube
- One or two layers of 304 stainless steel wire braid

Moulina

SC-TW Series** hose is iden-

tical to the SC-TW Series with

Applications

- Steam
- Compressor discharge

N/I:--

- Chemical transfer
- Meets 100R14B

Temperature Range

-54°C to +230°C (-65°F to +450°F)

						re	Burst		Bend		Weigh		Service	Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	In/HG	
SC-4TW	4.8	0.19	8.2	0.32	207 *	3,000 *	827	12,000	50.8	2.00	0.09	0.06	28	Everswage
														Field Attachable
													,	E-Series/ ER-Series
SC-5TW	6.4	0.25	10.1	0.40	207	3,000	827	12,000	76.2	3.00	0.12	0.08	28	Everswage
														Field Attachable
														E-Series
SC-6TW	7.9	0.31	11.6	0.46	172 *	2,500 *	689	10,000	101.6	4.00	0.15	0.10	28 ‡	Everswage
														Field Attachable
														E-Series/ER-Series
SC-7TW	9.6	0.38	13.4	0.53	138	2,000	552	8,000	127.0	5.00	0.16	0.11	28 ‡	E-Series
SC-8TW	10.4	0.41	14.3	0.56	138 *	2,000 *	552	8,000	127.0	5.00	0.18	0.12	28 ‡	Everswage
														Field Attachable
														E-Series/ER-Series
SC-10TW *	12.7	0.50	16.8	0.66	121 *	1,750 *	483	7,000	165.1	6.50	0.25	0.17	28 ‡	Everswage
														Field Attachable
														E-Series\ER-Series
SC-12TW *	15.7	0.62	20.1	0.79	103 *	1,500 *	414	6,000	190.5	7.50	0.28	0.19	28 ‡	Everswage
														Field Attachable
														E-Series/ER-Series
SC-14TW	19.1	0.75	23.3	0.92	69	1,000	276	4,000	215.9	8.50	0.37	0.25	28 ‡	E-Series
SC-16TW	22.4	0.88	26.9	1.06	69 *	1,000 *	276	4,000	228.6	9.00	0.40	0.27	12 ‡	Everswage
														Field Attachable
														E-Series/ER-Series
SC-18ZTW ◊	25.4	1.00	31.6	1.24	69	1,000	276	4,000	304.8	12.00	0.79	0.53	12 ‡	E-Series
316 Stainless	Steel B	raid												
SC-4TW316SS	4.8	0.19	8.2	0.32	207	3,000	827	12,000	50.8	2.00	0.09	0.06	28	Everswage, E-Series
														Field Attachable
SC-16TW316SS	22.4	0.88	26.9	1.06	62	900	248	3,600	228.6	9.00	0.40	0.27	12 ‡	Everswage, E-Series
^														Field Attachable

WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

^{*} The operating pressure of 1/2" I.D. hoses are lowered to 1500 psi and 5/8" I.D. hoses are lowered to 1250 psi when Brass Everswage fittings are used.

^{◊ &}quot;Z" Designates a double braid of 304 stainless steel wire.

[‡] Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected. For a list of internal support coils available, see page G-3.

B-Series and M-Series

Smooth Bore

B-Series

Bronze Braid Smooth Bore Non-Dissipating



Everflex B-Series is reinforced with bronze wire. All sizes have a minimum

of 0.040" thick wall of virgin Teflon resin. Everflex B-Series hose has traditionally been used in applications which require additional abrasion resistance.

Construction

- Non-conductive inner tube
- One layer of a single Bronze braid

Applications

 For use in any application requiring higher abrasion resistance.

Temperature range

-54°C to +204°C (-65°F to +400°F)

Number	Hose I.D.		Hose O.D.		Work Press		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
B-4	4.8	0.19	8.6	0.34	86	1,250	344	5,000	38.1	1.50	0.12	0.08	Everswage
B-5	6.4	0.25	10.2	0.4	77	1,125	310	4,500	50.8	2.00	0.13	0.09	Everswage
B-6	7.9	0.31	11.7	0.46	72	1,050	289	4,200	88.9	3.50	0.18	0.12	Everswage
B-8	10.4	0.41	14.7	0.58	68	1,000	275	4,000	114.3	45.00	0.25	0.17	Everswage
B-10	12.7	0.50	17.3	0.68	62	900	248	3,600	127.0	5.00	0.31	0.21	Everswage
B-12	15.7	0.62	20.3	0.8	51	750	206	3,000	152.4	6.00	0.40	0.27	Everswage
B-16	22.4	0.88	27.2	1.07	43	625	172	2,500	228.6	9.00	0.63	0.43	Everswage

M-Series

Monel Braid Smooth Bore Non-Dissipating



Everflex M-Series is reinforced with a Monel braid rather than the typical stainless steel braid. The inner tube is constructed of virgin Teflon resin with a minimum wall thickness of .040". The corrosion resistant Monel wire braid is designed for use in chlorine transfer applications, and is suited for hydrochloric and hydroflouric acid applications as well.

Construction

- Non-conductive inner tube
- One layer of a single Monel braid

Applications

- Acids
- Chemical transfer

Temperature Range

-54°C to +230°C (-65°F to +450°F)

Number	Hose I.D.		Hose O.D.		Worki Pressi		Min. Burst	:	Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
M-4	4.8	0.19	8.6	0.34	103	1,500	482	7,000	38.1	1.50	0.12	0.08	Everswage

WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

S3-PVC Series

Smooth Bore Non-Dissipating



S3 with a PVC cover is a Everflex hose which can be used for DOT 571.106 hydraulic brake line applications.

PVC cover is on the exterior in 0.020" thickness. The PVC cover provides durability in an abrasive environment.

Construction

- Non-conductive inner tube
- One layer of 304 stainless steel wire braid
- PVC cover

Applications

• Hydraulic brake lines

Temperature Range

-40°C to +93°C $(-40^{\circ}F \text{ to } + 200^{\circ}F)$

Number	Hose I.D.		Hose O.D.		Workir Pressu		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
S-3020CLPVCUV	3.6	0.14	7.9	0.31	210	3,000	840	12,000	25.4	1.00	0.09	0.06	Everswage ***

Please contact Eaton in regard to hose assemblies. Colored PVC covers and printing options may be available.



WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

Disclaimer: The customer is responsible for approving the finished assembly to DOT 571.106.

^{***} PVC Cover must be removed from hose where fitting is attached.

В

Hi-PSI Series

Smooth Bore

Hi-PSI SeriesSmooth Bore
Static Dissipating



Hi-PSI Series hose is a heavy wall Everflex hose for very high pressure applications. The reinforcement is braided and not spiraled allowing for better hose flexibility.

Construction

- Conductive Teflon inner tube
- One or two layers of 304 stainless steel wire braid

Applications

- Steam
- Compressor discharge
- · Chemical transfer

Temperature Range

-54°C to +204°C (-65°F to + 400°F)

Number	Hose I.D.		Hose O.D.		Worki Pressi	ng ure at 72°	Work Press 400°	ing ure at	Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
H504	5.6	0.22	9.8	0.39	345	5,000	207	3,000	1103	16,000	38.1	1.50	0.15	0.10	Factory crimp only
H506	8.0	0.31	13.1	0.52	345	5,000	207	3,000	1103	16,000	63.5	2.50	0.25	0.17	Factory crimp only
H508	10.3	0.41	16	0.63	345	5,000	207	3,000	1103	16,000	73.7	2.90	0.36	0.24	Factory crimp only
H510	12.7	0.50	19.3	0.76	345	5,000	207	3,000	1103	16,000	83.8	3.30	0.51	0.34	Factory crimp only
H512	16.5	0.65	25.1	0.99	345	5,000	207	3,000	1103	16,000	101.6	4.00	1.02	0.68	Factory crimp only
H516	22.2	0.88	33.4	1.32	345	5,000	207	3,000	1103	16,000	127.0	5.00	1.72	1.16	Factory crimp only
H520	28.6	1.13	41.1	1.62	345	5,000	207	3,000	1103	16,000	304.8	12.00	2.47	1.66	Factory crimp only
H524	34.9	1.38	47.5	1.87	276	4,000	207	3,000	827	12,000	355.6	14.00	2.97	1.99	Factory crimp only

Hose assemblies must be assembled by Eaton. Standard Stainless Steel JIC fittings are available.

Hose/Tube Size	Insert Part Number	Collar Part Number	Female JIC Thread Size	Hose Assembly Part Number
-4	H20004-4-316/4	H70000-4-304	7/16-20	FK4650EEE-Length
-6	H20006-6-316/4	H70000-6-304	9/16-18	FK4650GGG-Length
-8	H20008-8-316/4	H70000-8-304	3/4-16	FK4650HHH-Length
-10	H20010-10-316/4	H70000-10-304	7/8-14	FK4650JJJ-Length
-12*	H20012-12-316/4	H70000-12-304	1-1/16-12	FK4650KKK-Length
-16*	H20016-16-316/4	H70000-16-304	1-5/16-12	FK4650MMM-Length
-20**	H20020-20-316/4	H70000-20-304	1-5/8-12	FK4650NNN-Length
-24**	H20024-24-316/4	H70000-24-304	1-7/8-12	FK4650PPP-Length

^{* 55&#}x27; Max length

^{** 25&#}x27; Max length

FC493

Smooth Bore Static Dissipating



The FC493 hose has conductive inner tube and incorporates a fire resistant polyester blend cover which also provides extra abrasion resistance. The hose

fittings come in a variety of configurations and materials based on specific application needs. The high pressure wire braid allows operating pressures up to 4,500 psi.

Applications include gage lines on self contained breathing apparatus (SCBA) units for emergency use.

Construction

- Static dissipating inner tube
- One layer of stainless steel Hi-PAC wire braid
- Fire resistant polyester blend cover

Applications

- High Pressure air lines
- SCBA equipment

Temperature Range

-60°C to +148°C $(-65^{\circ}F \text{ to } + 300^{\circ}F)$

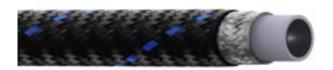
Number	Hose I.D.		Hose O.D.		Workir Pressu		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
FC493-03	3.5	0.14	9.5	0.37	310.3	4,500	1241.4	18,000	38.1	1.50	0.12	0.08	Factory crimp only
FC493-04	5.6	0.22	11.2	0.44	310.3	4,500	1241.4	18,000	38.1	1.50	0.21	0.14	Factory crimp only



MARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

FC740

Smooth Bore Static Dissipating



FC740 is a conductive Everflex hose made from extruded Teflon resin with one layer of stainless steel wire braid and covered with a black fire resistant polyester blend yarn cover. The polyester cover also provides extra abrasion resistance.

Construction

- Static dissipating inner tube
- One layer of stainless steel wire braid
- Fire resistant black polyester blend cover with a blue tracer

Applications

- Steam
- Compressor Discharge
- Chemical Transfer

Temperature Range

-40°C to +260°C (-40°F to +500°F)

Number	Hose I.D.		Hose O.D.		Worki Pressi		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
FC740-03	3.2	0.13	9.4	0.37	210	3,000	840	12,000	38.1	1.50	0.10	0.07	Factory crimp only
FC740-04	4.8	0.19	10.7	0.42	210	3,000	840	12,000	50.8	2.00	0.12	0.08	Factory crimp only
FC740-05	6.4	0.25	12.1	0.48	210	3,000	840	12,000	76.2	3.00	0.15	0.10	Factory crimp only
FC740-06	7.9	0.31	13.6	0.54	175	2,500	700	10,000	101.6	4.00	0.18	0.12	Factory crimp only
FC740-08	10.3	0.41	16.4	0.65	140	2,000	560	8,000	133.4	5.25	0.24	0.16	Factory crimp only

FC742

Smooth Bore Static Dissipating



FC742 is a conductive Everflex hose made from extruded Teflon resin with one layer of stainless steel wire braid and covered with a brown fire retardant silicone cover. Other cover colors are also available.

Construction

- Full bore inner tube
- One layer of stainless steel wire braid
- Fire retardant silicone cover

Applications

- Steam
- Chemical transfer
- Wash-down environments

Temperature Range

-54°C to +204°C (-65°F to +400°F)

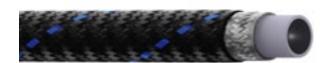
Number	Hose I.D.		Hose O.D.		Worki Press		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
FC742-06	7.8	0.31	17.5	0.69	276	4,000	1103	16,000	63.5	2.50	0.40	0.26	Factory crimp only



WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

SC-GTW Series

Smooth Bore Static Dissipating



The is SC-GTW Series of hose designed for LPG applications. Eaton is excited to offer this hose as an Australian Gas Association approved hose with the lowest extractable

Construction App

- Reduced bore inner tube
- One layer of 304 stainless steel wire braid
- Fire resistant black polyester blend cover with a blue tracer

and permeation rate. The hose construction consists of a tube made with Teflon® resin, a single stainless steel wire braid, and a black and blue fire retardant polyester cover.

Application

LPG Fuel lines

The exceptional flexibility and low permeation rate make the SC-GTW the ideal solution for mobile markets such automotive, forklift, light and medium duty truck, and transfer.

Temperature Range

 -20° C to $+125^{\circ}$ C $(-4^{\circ}$ F to $+257^{\circ}$ F)

Number	Hose I.D.		Hose O.D.		Worki Pressi		Min. Burst		Min. Bend		Hose Weight		Hose Ends
	mm	in	mm	in	bar	psi	bar	psi	mm	in	Kg/m	lbs/ft	
SC-6GTW	7.9	0.31	13.6	0.54	26	377	104	1,508	101.6	4.00	0.18	0.12	See Chart Below
SC-10GTW	12.7	0.50	19.1	0.75	26	377	104	1,508	165.1	6.50	0.27	0.18	See Chart Below

Authorized Hose Fittings For Use With SC-GTW Hose

Part Number	Description	Thread Size
For SC-6GTW		
05E-406	5/16" SAE 45 Straight Female Swivel	5/8 - 18
05E-CB06	5/16" SAE 45, 45° Elbow Female Swivel	5/8 - 18
05E-F06	5/16" SAE 45, 90° Elbow Female Swivel	5/8 - 18
For SC-10GTW		
08E-406	1/2" SAE 45 Straight Female Swivel	5/8 - 18
08E-CB06	1/2" SAE 45, 45° Elbow Female Swivel	5/8 - 18
08E-F06	1/2" SAE 45, 90° Elbow Female Swivel	5/8 - 18

Assembly Instructions

- Measure hose to desired length. Wrap cut-off point with tape and mark. Desired length is determined by subtracting cut-off factor from assembly overall length.
- Cut hose squarely to the desired length with a finetooth hacksaw or a cut-off wheel. Clean the hose bore after cutting.
- 3. Remove adhesive tape. Choose the correct fittings to assemble. Push hose on the fitting until the fitting bottoms.
- Slide the pusher to the back position. Using the crimp specification, select the proper collet assembly and spacer ring.
- 5. Lubricate the inside cone base die ring and the outside cone of the die ring adapter plate. Place the die ring adapter plate into the base die ring. Lubricate the external surfaces of collet assembly halves with a highefficiency PTFE-base lubricant. Insert the collet assembly into the die ring adapter.
- 6. Insert the hose assembly through the bottom of the base die ring and between the two collet assembly halves. Align the fitting with the top of the collet halves as referenced on the crimp specification.
- 7. Place the spacer ring in the appropriate position on top of the collet assembly (either flat-side up or flat side down as referenced in the crimp specification).
- Pull the pusher forward into the detent holding position with the pusher positioning handle.
- 9. Begin crimping by actuating the pump. When the spacer ring bottoms out against the base die ring, the crimping is complete. Visually inspect the crimp and verify the correct crimp diameter and length. The crimp should be located ± 1.5 mm from the scribe line.
- 10. Ensure the hose identifying label is securely attached at the completion of the assembly procedure.



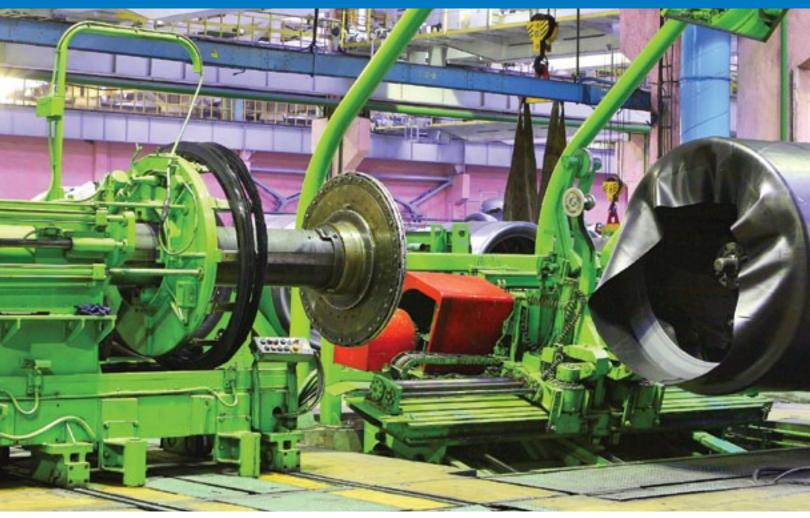
WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

Convoluted Hose and Hose Ends

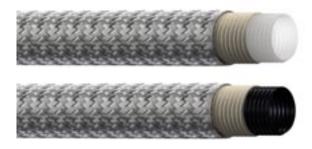
Everflex Conv-O-Crimp 8000 and 8500 Series hose provides excellent performance, reliability and durability with tighter bend radii than smooth wall hose. When compared with large diameter rubber hose, Conv-O-Crimp is dramatically lighter weight, more flexible, and more resistant to heat and chemicals. The tube is fabricated with tape of Teflon and reinforced with 304 stainless steel wire. The result is a product ideally suited for applications in truck and bus, chemical processing, food processing, hydraulics, pharmaceutical, tire manufacturing, steel mills, and many others. In addition to the standard 8000 Series virgin white tube of Teflon, the 8500 Series has an internal conductive static dissipating black liner that provides a path to the hose end fitting for applications where flow induced electrostatic charges can occur.

Table of Contents

Conv-O-Crimp Hose	C-2
Conv-O-Crimp Hose Ends	C-3



Convoluted Hose Non-Conductive and Conductive



Construction

 Convoluted Teflon tube with 304 stainless steel wire braid reinforcement

Temperature Range

-54°C to + 204°C (-65°F to + 400°F)

Industrial Applications

- Automotive
- Platen Presses
- Pharmaceutical
- Bus & Truck
- Reverse Osmosis
- Hydraulics
- Chemical Processing

- Steam, Air, Water
- Tire Manufacturing
- Electronics
- Steel Mills
- Food Processing
- Tank Truck Transfer

	Hose Size	Hose I.D.	Non- Conductive Part Number	Nominal I.D.	Nominal O.D.	Max Operating Pressure	Burst Pressure Rm. Temp.	Min. Bend Radius	Hose Vacuum	Weight
•			_	In	In	psi	psi	in	in / hg	lb. / ft
Non-Conductive										
	-8	1/2	8008	.57	.81	1500	6000	1.5	28	.23
	-12	3/4	8012	.83	1.10	1250	5000	2.5	28	.31
	-16	1	8016	1.06	1.34	900	3600	3.0	20	.42
	-20	1-1/4	8020	1.31	1.60	900	3600	3.5	12	.52
	-24	1-1/2	8024	1.58	1.83	750	3000	4.5	10	.59
	-32	2	8032	2.06	2.38	500	2000	6.0	5	.86
Conductive										
	-8	1/2	8508	.57	.81	1500	6000	1.5	28	.23
	-12	3/4	8512	.83	1.10	1250	5000	2.5	28	.31
	-16	1	8516	1.06	1.34	900	3600	3.0	20	.42
•	-20	1-1/4	8520	1.31	1.60	900	3600	3.5	12	.52
4	-24	1-1/2	8524	1.58	1.83	750	3000	4.5	10	.59
	-32	2	8532	2.06	2.38	500	2000	6.0	5	.86

WARNING: These hoses can be used to convey hazardous chemicals, steam, hot liquids or other dangerous materials which can cause death, serious bodily injury including burns, pressure wounds or chemical exposure if released accidentally. They should, therefore, only be handled or worked on by personnel properly trained in the safe handling of the materials or chemicals conveyed in the hoses.

Convoluted Hose Ends

Conv-O-Crimp Hose Ends

Material Code: A= Insert - 316 S.S.. Nut & Collar - 304 S.S. B= Insert - 316 S.S., Nut - 304 S.S., Collar - Carbon Steel

C= All Components -

Carbon Steel

The unique Everflex Conv-O-Crimp hose end are shipped with factory-installed Teflon sleeves on the insert. This eliminates the time consuming, costly and subjective step of wrapping the hose end with Teflon tape before assembly. The end result is a hose assembly system that is second to none in ease of assembly fabrication. Common industrial configurations are available in carbon steel and 316 stainless steel (wetted surfaces). Finished assemblies can be acquired from an authorized Everflex distributor or the factory.



Male Pipe (NPT)



Hose I.D.	Part Number	Part No. Suffix Letter	Thread NPT	A Overall Length In.	Hose Cut-Off Factor†	Nominal I.D. In.
1/2	8-108	A,B,C	1/2-14	2.33	1.38	.406
3/4	12-112	A,B,C	3/4-14	2.48	1.38	.625
1	16-116	A,B,C	1 11-1/2	2.95	1.76	.828
1-1/4	20-120	A,B,C	1 1/4-11-1/2	2.98	1.79	1.078
1-1/2	24-124	A,B,C	1 1/2-11-1/2	3.01	1.82	1.305
2	32-132	A,B,C	2 11-1/2	3.43	1.98	1.781
	1.D. 1/2 3/4 1 1-1/4	I.D. Number 1/2 8-108 3/4 12-112 1 16-116 1-1/4 20-120 1-1/2 24-124	Hose I.D. Part Number Suffix Letter 1/2 8-108 A,B,C 3/4 12-112 A,B,C 1 16-116 A,B,C 1-1/4 20-120 A,B,C 1-1/2 24-124 A,B,C	Hose I.D. Part Number Suffix Letter Thread NPT 1/2 8-108 A,B,C 1/2-14 3/4 12-112 A,B,C 3/4-14 1 16-116 A,B,C 1 11-1/2 1-1/4 20-120 A,B,C 1 1/4-11-1/2 1-1/2 24-124 A,B,C 1 1/2-11-1/2	Hose I.D. Part Number Suffix Letter Thread NPT Overall Length In. 1/2 8-108 A,B,C 1/2-14 2.33 3/4 12-112 A,B,C 3/4-14 2.48 1 16-116 A,B,C 1 11-1/2 2.95 1-1/4 20-120 A,B,C 1 1/4-11-1/2 2.98 1-1/2 24-124 A,B,C 1 1/2-11-1/2 3.01	Hose I.D. Part Number Suffix Letter Thread NPT Overall Length In. Cut-Off Factor1 1/2 8-108 A,B,C 1/2-14 2.33 1.38 3/4 12-112 A,B,C 3/4-14 2.48 1.38 1 16-116 A,B,C 1 11-1/2 2.95 1.76 1-1/4 20-120 A,B,C 1 1/4-11-1/2 2.98 1.79 1-1/2 24-124 A,B,C 1 1/2-11-1/2 3.01 1.82

Male Pipe Inserts with Teflon Sleeves Installed



Hose Size	Carbon Steel Insert	Stainless Steel Insert	Carbon Steel Collar	Stainless Steel Collar
-8	800108-8-CZ	800108-8-316	870000-8-CZ	870000-8-304
-12	800112-12-CZ	800112-12-316	870000-12-CZ	870000-12-304
-16	800116-16-CZ	800116-16-316	870000-16-CZ	870000-16-304
-20	800120-20-CZ	800120-20-316	870000-20-CZ	870000-20-304
-24	800124-24-CZ	800124-24-316	870000-24-CZ	870000-24-304
-32	800132-32-CZ	800132-32-316	870000-32-CZ	870000-32-304

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

[†] To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

C

Material Code:

A= Insert - 316 S.S., Nut & Collar - 304 S.S.

B= Insert - 316 S.S. Nut - 304 S.S., Collar - Carbon Steel

C= All components -Carbon Steel

JIC 37° Swivel (NPT)

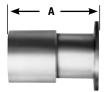


Hose Size	Hose I.D.	Catalog Number	Part No. Suffix Letter	Thread NPT	A Overall Length In.	Hose Cut-Off Factor†	Nominal I.D. In.
-8	1/2	8-608	A,B,C	3/4-16	1.82	1.32	.406
-12	3/4	12-612	A,B,C	1 1/6-12	2.01	1.46	.625
-16	1	16-616	A,B,C	1 5/16-12	2.14	1.55	.828
-20	1-1/4	20-620	A,B,C	1 5/8-12	2.20	1.64	1.078
-24	1-1/2	24-624	A,B,C	1 7/8-12	2.27	1.81	1.305
-32	2	32-632	A,B,C	2 1/2-12	2.62	2.10	1.781

JIC 37° Swivel Inserts with PTFE Sleeves Installed

Hose Size	Carbon Steel Insert	Stainless Steel Insert	Carbon Steel Collar	Stainless Steel Collar
-8	820008-8-CZ	820008-8-316	870000-8-CZ	870000-8-304
-12	820012-12-CZ	820012-12-316	870000-12-CZ	870000-12-304
-16	820016-16-CZ	820016-16-316	870000-16-CZ	870000-16-304
-20	820020-20-CZ	820020-20-316	870000-20-CZ	870000-20-304
-24	820024-24-CZ	820024-24-316	870000-24-CZ	870000-24-304
-32	820032-32-CZ	820032-32-316	870000-32-CZ	870000-32-304

Flange Retainer



Flange ordered separately. See chart.

Hose Size	Hose I.D.	Catalog Number	Part No. Suffix Letter	A Overall Length In.	Hose Cut-Off Factor†	Nominal I.D. In.
-8	1/2	8-F00	A,B	2.13	1.31	.406
-12	3/4	12-F00	A,B	2.43	1.43	.625
-16	1	16-F00	A,B	2.58	1.50	.828
-20	1-1/4	20-F00	A,B	2.60	1.56	1.078
-24	1-1/2	24-F00	A,B	2.72	1.62	1.305
-32	2	32-F00	A,B	3.11	1.81	1.781

Sanitary Tri-Clamp



Hose Size	Hose I.D.	Catalog Number	Part No. Suffix Letter	A Overall Length In.	Hose Cut-Off Factor†	Nominal I.D. In.
-16	1	16-S16	Α	2.14	1.06	.828
-24	1-1/2	24-S24	Α	2.14	1.06	1.305
-32	2	32-S32	А	2.40	1.06	1.781

A

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

[†] To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Everswage Hose Ends, Components and Fittings

Everswage hose ends are permanently attached to Everflex Smooth Bore hose using a swaging process. The unique design of the Everswage collar allows a hose assembly fabricator to slide several collars at once on the hose. This significantly reduces the time required to fabricate an assembly. The most popular industrial fitting configurations, male pipe (NPT) and female JIC (SAE) swivels, are available in 300 Series stainless steel, carbon steel, or brass.

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Everswage Hose Ends	D-2
Everswage Components	D-6
Everswage Fitting Bill of Material Cross-Reference	D-8



For use with Everflex Hoses STW, SCTW, B, M, S, SC





Part Number Example:

B-1104-1

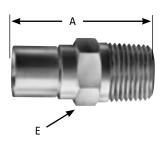
B = Brass

C = Carbon Steel

S = Stainless Steel

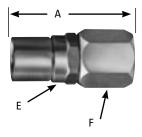
Note: The operating pressure of 1/2" I.D. hoses are lowered to 1500psi and 5/8" I.D. hoses are lowered to 1250 psi when Brass Everswage fittings are used.

Male Pipe (NPT)



Hose I.D.	Part No. Pre-Fix Letter	Part Number	Tube Size	Thread Size	A	Hose Cut-off Factor†	E
5/32	B,S	1103	1/8	1/8-27	1.19	3/4	1/2
3/16	B,C,S	1104-1	1/8	1/8-27	1.34	3/4	1/2
3/16	B,C,S	1104-2	1/4	1/4-18	1.47	7/8	9/16
1/4	B,C,S	1105-1	1/4	1/4-18	1.47	7/8	9/16
1/4	B, C	1105-1/8	1/8	1/8	1.34	15/16	9/16
5/16	B,C,S	1106-1	1/4	1/4-18	1.47	7/8	11/16
5/16	B,C,S	1106-2	3/8	3/8-18	1.53	15/16	11/16
5/16	B,S	1106-3	1/2	1/2	1.75	1-1/8	7/8
13/32	B,C,S	1108-1	3/8	3/8-18	1.84	1	3/4
13/32	B,C,S	1108-2	1/2	1/2-14	1.97	1-1/8	7/8
1/2	B,C,S	1110	1/2	1/2-14	1.97	1-3/16	7/8
5/8	B,C,S	1112	3/4	3/4-14	2.14	1-5/16	1-1/16
7/8	B,C,S	1116	1	1-11.5	2.94	1-5/8	1-3/8
7/8	B,C,S	1116Z‡	1	1-11.5	2.94	1-5/8	1-3/8
1-1/8	B,C,S	1120Z‡	1-1/4	1-1/4-11.5	3.03	1-3/4	1-3/4

37° JIC Swivel



Part No. Pre-Fix Letter	Part Number	Tube Size	Thread Size	A	Hose Cut-off Factor†	E	F
B,S	1303	3/16	3/8-24	1.38	0.85		1/2
В	1303-4	1/4	7/16-20	1.38	0.90	1/2	9/16
B,C,S	1304	1/4	7/16-20	1.50	0.90	1/2	9/16
B,C,S	1305	5/16	1/2-20	1.63	0.94	9/16	5/8
B,C,S	1306	3/8	9/16-18	1.63	0.99	5/8	11/16
B,C,S	1308	1/2	3/4-16	2.00	1.18	3/4	7/8
B,C,S	1310	5/8	7/8-14	2.00	1.30	7/8	1
B,C,S	1312	3/4	1-1/6-12	2.25	1.38	1-1/16	1-1/4
B,C,S	1316	1	1-5/16-12	2.88	1.51	1-3/8	1-1/2
B,C,S	1316Z‡	1	1-5/16-12	2.88	1.51	1-3/8	1-1/2
B,C,S	1320Z‡	1-1/4	1-5/8-12	3.13	1.26	1-3/4	2
	B,C,S	Pre-Fix Letter Part Number B,S 1303 B 1303-4 B,C,S 1304 B,C,S 1305 B,C,S 1306 B,C,S 1308 B,C,S 1310 B,C,S 1312 B,C,S 1316 B,C,S 1316Z‡	Pro-Fix Letter Part Number Tube Size B,S 1303 3/16 B 1303-4 1/4 B,C,S 1304 1/4 B,C,S 1305 5/16 B,C,S 1306 3/8 B,C,S 1308 1/2 B,C,S 1310 5/8 B,C,S 1312 3/4 B,C,S 1316 1 B,C,S 1316Z‡ 1	Pre-Fix Letter Part Number Tube Size Thread Size B,S 1303 3/16 3/8-24 B 1303-4 1/4 7/16-20 B,C,S 1304 1/4 7/16-20 B,C,S 1305 5/16 1/2-20 B,C,S 1306 3/8 9/16-18 B,C,S 1308 1/2 3/4-16 B,C,S 1310 5/8 7/8-14 B,C,S 1312 3/4 1-1/6-12 B,C,S 1316 1 1-5/16-12 B,C,S 1316Z‡ 1 1-5/16-12	Pre-Fix Letter Part Number Tube Size Thread Size A B,S 1303 3/16 3/8-24 1.38 B 1303-4 1/4 7/16-20 1.38 B,C,S 1304 1/4 7/16-20 1.50 B,C,S 1305 5/16 1/2-20 1.63 B,C,S 1306 3/8 9/16-18 1.63 B,C,S 1308 1/2 3/4-16 2.00 B,C,S 1310 5/8 7/8-14 2.00 B,C,S 1312 3/4 1-1/6-12 2.25 B,C,S 1316 1 1-5/16-12 2.88 B,C,S 1316Z‡ 1 1-5/16-12 2.88	Pre-Fix Letter Part Number Tube Size Thread Size A Cut-off Factor† B,S 1303 3/16 3/8-24 1.38 0.85 B 1303-4 1/4 7/16-20 1.38 0.90 B,C,S 1304 1/4 7/16-20 1.50 0.90 B,C,S 1305 5/16 1/2-20 1.63 0.94 B,C,S 1306 3/8 9/16-18 1.63 0.99 B,C,S 1308 1/2 3/4-16 2.00 1.18 B,C,S 1310 5/8 7/8-14 2.00 1.30 B,C,S 1312 3/4 1-1/6-12 2.25 1.38 B,C,S 1316 1 1-5/16-12 2.88 1.51 B,C,S 1316Z‡ 1 1-5/16-12 2.88 1.51	Pre-Fix Letter Part Number Tube Size Thread Size A Cut-off Factor† E B,S 1303 3/16 3/8-24 1.38 0.85 B 1303-4 1/4 7/16-20 1.38 0.90 1/2 B,C,S 1304 1/4 7/16-20 1.50 0.90 1/2 B,C,S 1305 5/16 1/2-20 1.63 0.94 9/16 B,C,S 1306 3/8 9/16-18 1.63 0.99 5/8 B,C,S 1308 1/2 3/4-16 2.00 1.18 3/4 B,C,S 1310 5/8 7/8-14 2.00 1.30 7/8 B,C,S 1312 3/4 1-1/6-12 2.25 1.38 1-1/16 B,C,S 1316 1 1-5/16-12 2.88 1.51 1-3/8 B,C,S 1316Z‡ 1 1-5/16-12 2.88 1.51 1-3/8



WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

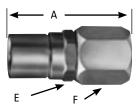
† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Everswage

Hose Ends

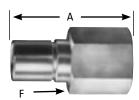
For use with Everflex Hoses STW, SCTW, B, M, S, SC

45° Brass Swivel



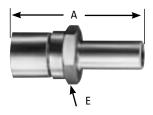
Hose I.D.	Part Number	Tube Size	Thread Size	Α	Hose cut-off Factor [†]	E	F
3/16	Fitt. #30	1/4	7/16-20	1.50	0.90	1/2	9/16
1/4	Fitt. #31	5/16	1/2-20	1.50	0.94	9/16	5/8
5/16	Fitt. #32	3/8	5/8-18	1.63	0.96	5/8	3/4
13/32	Fitt. #33	1/2	3/4-16	2.00	1.18	3/4	7/8
1/2	Fitt. #34	5/8	7/8-14	2.13	1.30	7/8	1
5/8	Fitt. #35s	3/4	1-1/16-14	2.25	1.38	1-1/16	1-1/4

Female Pipe (NPT)



Hose I.D.	Part No. Pre-Fix Letter	Part Number	Tube Size	Thread Size	A	Hose Cut-off Factor [†]	F
3/16	В	2104-1	1/8	1/8-27	1.28	11/16	9/16
3/16	В	2104-2	1/4	1/4-18	1.41	13/16	3/4
1/4	B,S	2105	1/4	1/4-18	1.41	13/16	3/4

Stainless Steel Tube Stub



Hose I.D.	Part Number	Tube Size	Connector	Α	Hose Cut-off Factor [†]	E
3/16	STE4-4	1/4"0.D.	0.188	1.50	1-1/8	9/16
1/4	STE4-5	1/4"0.D.	0.203	1.50	7/8	9/16
5/16	STE6-6	3/8"0.D.	0.266	1.63	1	11/16
13/32	STE8-8	1/2"0.D.	0.359	2.25	1-3/8	7/8
5/8	STE12-12	3/4"0.D.	0.578	2.38	1-1/2	1-1/16
7/8	STE16-16	1-"0.D.	0.813	3.00	1-11/16	1-3/8

Brass Laundry Flange



(Flange is plated carbon steel, copper gasket included)

Hose I.D.	Part Number	Nominal ID	Α	Hose Cut-off Factor†	
5/16	B-6LFC	17/64	1	5/16	



MARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

For use with Everflex Hoses STW, SCTW, B, M, S, SC

Brass Tire Mold Flange

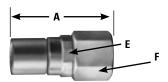


(Flange is plated carbon steel)

D

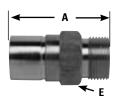
Hose I.D. Part Number Nominal ID A Hose Cut-off Factor† E 5/8 FITT. #60 37/64 2.63 1-5/8 1-1/16

Carbon Steel Paint Spray Swivel



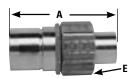
Hose I.D.	Part Number	Thread Size	A	Hose Cut-Off Factor†	E	F	
1/4	C-5PS	1/4 NPSM	1.50	0.82	9/16	5/8	

SAE Brass Male Compression



Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	E	
1/2	FITT. #40	5/8	13/16-18	1.75	29/32	7/8	

SAE Brass Female Compression



Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	E
1/2	FITT. #41	5/8	13/16-18	2.00	1-3/16	15/16

Stainless Steel Power Trim, Straight



(316 Stainless Steel Wetted Parts.)

Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor†	E
3/16	PT-S-4	3/16	3/8-24	1.88	1-7/16	3/8

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

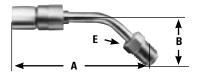
Everswage

Hose Ends

For use with Everflex Hoses STW, SCTW, B, M, S, SC

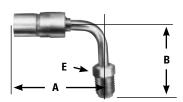
Stainless Steel Power Trim, 45° Elbow

Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	В	E	
3/16	PT-45-4	3/16	3/8-24	2.75	2	3/4	3/8	



(316 Stainless Steel wetted parts.)

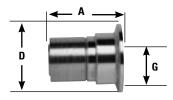
Stainless Steel Power Trim, 90° Elbow



(316 Stainless Steel wetted parts.)

Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor†	В	E	
3/16	PT-90-4	3/16	3/8-24	2.00	1-1/2	1	3/8	

Sanitary Tri Clamp



(316 Stainless Steel wetted parts.)

Hose I.D.	Part Number	Nominal I.D.	A	Hose Cut-Off Factor†	D	G
1/2	10-S.37-316	.45	1.5	.6875	.985	.375
7/8	16-S.87-316	.81	2.0	.6875	1.984	.86

 Λ

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

[†] To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

D

For use with Everflex Hoses STW, SCTW, B, M, S, SC

Swage Collars



Hose I.D.	Part Number	Part No. Suffix Letter	JIC Size	
3/16	NC-4	B,C,S	1/4	
1/4	NC-5	B,C,S	5/16	
5/16	NC-6	B,C,S	3/8	
13/32	NC-8	B,C,S	1/2	
1/2	NC-10	B,C,S	5/8	
5/8	NC-12	B,C,S	3/4	
7/8	NC-16	B,C,S	1	
7/8	NC-16Z	B,C,S	1	
1-1/8	NC-20Z	B,C,S	1-1/4	

Male Pipe Insert



Hose I.D.	Part Number	Part No. Suffix Letter	Tube Size	
3/16	NM2-4	B,C,S	1/8	_
3/16	NM4-4	B,C,S	1/4	
1/4	NM4-5	B,C,S	5/16	
5/16	NM4-6	B,C,S	1/4	
5/16	NM6-6	B,C,S	3/8	
13/32	NM6-8	B,C,S	3/8	
13/32	NM8-8	B,C,S	1/2	
1/2	NM8-10	B,C,S	1/2	
5/8	NM12-12	B,C,S	1	
7/8	NM16-16	B,C,S	1	
1-1/8	NM20-20	B,C,S	1-1/4	

Everswage

Components

For use with Everflex Hoses STW, SCTW, B, M, S, SC

37° JIC Female Insert



Hose I.D.	Part Number	Part No. Suffix Letter	JIC Size	
3/16	NJ-4	C,S	1/4	
1/4	NJ-5	B,C,S	5/16	
5/16	NJ-6	B,C,S	3/8	
13/32	NJ-8	B,C,S	1/2	
1/2	NJ-10	B,C,S	5/8	
5/8	NJ-12	B,C,S	3/4	
7/8	NJ-16	B,C,S	1	
1-1/8	NJ-20	B,C,S	1-1/4	

37° JIC Female **Short Collars**



Hose I.D.	Part Number	Part No. Suffix Letter	JIC Size	
3/16	NJC-4	B,C,S	1/4	
1/4	NJC-5	B,C,S	5/16	
5/16	NJC-6	B,C,S	3/8	
13/32	NJC-8	B,C,S	1/2	
1/2	NJC-10	B,C,S	5/8	
5/8	NJC-12	B,C,S	3/4	
7/8	NJC-16	B,C,S	1	
1-1/8	NJC-20	B,C,S	1-1/4	

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

37° JIC Female Nuts



Hose I.D.	Part Number	Part No. Suffix Letter	JIC Size	
3/16	NNJ-4	B,C,S	1/4	_
1/4	NNJ-5	B,C,S	5/16	
5/16	NNJ-6	B,C,S	3/8	
13/32	NNJ-8	B,C,S	1/2	
1/2	NNJ-10	B,C,S	5/8	
5/8	NNJ-12	B,C,S	3/4	
7/8	NNJ-16	B,C,S	1	
1-1/8	NNJ-20	B,C,S	1-1/4	

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

Top Assembly Catalog Number	Insert Part Number*	Collar Part Number
B-1112	NM12-12-B	NC-12-B
C-1112	NM12-12-C	NC-12-C
S-1112	NM12-12-S	NC-12-S
B-1116	NM16-16-B	NC-16-B
C-1116	NM16-16-C	NC-16-C
S-1116	NM16-16-S	NC-16-S
B-1103	NM2-3-B	NC-3-B
S-1103	NM2-3-S	NC-3-S
B-1104-1	NM2-4-B	NC-4-B
C-1104-1	NM2-4-C	NC-4-C
S-1104-1	NM2-4-S	NC-4-S
B-1105-1/8	NM2-5-B	NC-5-B
B-1116Z	NM16-16-B	NC-16Z-B
C-1116Z	NM16-16-C	NC-16Z-C
S-1116Z	NM16-16S	NC-16Z-S
B-1120Z	NM20-20-B	NC-20Z-B
C-1120Z	NM20-20-C	NC-20Z-C
S-1120Z	NM20-20-S	NC-20Z-S
B-1104-2	NM4-4-B	NC-4-B
C-1104-2	NM4-4-C	NC-4-B
S-1104-2	NM4-4-S	NC-4-S
B-1105	NM4-5-B	NC-5-B
C-1105	NM4-5-C	NC-5-C
S-1105	NM4-5-S	NC-5-S
B-1106-1	NM4-6-B	NC-6-B
C-1106-1	NM4-6-C	NC-6-C
S-1106-1	NM4-6-S	NC-6-S
B-1106-2	NM6-6-B	NC-6-B
C-1106-2	NM6-6-C	NC-6-C
S-1106-2	NM6-6-S	NC-6-S
B-1108-1	NM6-8-B	NC-8-B
C-1108-1	NM6-8-C	NC-8-C
S-1108-1	NM6-8-S	NC-8-S
B-1110	NM8-10-B	NC-10-B
C-1110	NM8-10-C	NC-10-C
S-1110	NM8-10-S	NC-10-S
B-1106-3	NM8-6-B	NC-6-B
C-1106-3	NM8-6-C	NC-6-C
S-1106-3	NM8-6-S	NC-6-S
B-1108-2	NM8-8-B	NC-8-B
C-1108-2	NM8-8-C	NC-8-C
S-1108-2	NM8-8-S	NC-8-S
C-5PS	NPS-5-C	NC-5-C
 Fitt. #30	NSAE-4-B	NC-4-B
Fitt. #32	NSAE-6-B	NC-6-B
Fitt. #33	NSAE-8-B	NC-8-B
Fitt. #34	NSAE-10-B	NC-10-B
Fitt. #35	NSAE-12-B	NC-12-B

Top Assembly Catalog Number	Insert Part Number	Collar Part Number
B-1303	NJIC-3-B	NC-3-B
S-1303	NJIC-3-S	NC-3-S
B-1303-4	NJIC4-3-B	NC-3-B
S-1303-4	NJIC4-3-S	NC-3-S
B-1304	NJICSAE-4-B	NC-4-B
C-1304	NJIC-4-C	NC-4-C
S-1304	NJIC-4-S	NC-4-S
B-1305	NJIC-5-B	NC-5-B
C-1305	NJIC-5-C	NC-5-C
S-1305	NJIC-5-S	NC-5-S
B-1306	NJIC-6-B	NC-6-B
C-1306	NJIC-6-C	NC-6-C
S-1306	NJIC-6-S	NC-6-S
B-1308	NJIC-8-B	NC-8-B
C-1308	NJIC-8-C	NC-8-C
S-1308	NJIC-8-S	NC-8-S
B-1310	NJIC-10-B	NC-10-B
C-1310	NJIC-10-C	NC-10-C
S-1310	NJIC-10-S	NC-10-S
B-1312	NJIC-12-B	NC-12-B
C-1312	NJIC-12-C	NC-12-C
S-1312	NJIC-12-S	NC-12-S
B-1316	NJIC-16-B	NC-16-B
C-1316	NJIC-16-C	NC-16-C
S-1316	NJIC-16-S	NC-16-S
B-1316Z	NJIC-16-B	NC-16Z-B
C-1316Z	NJIC-16-C	NC-16Z-C
S-1316Z	NJIC-16-S	NC-16Z-S
B-1320Z	NJIC-20-B	NC-20Z-B
C-1320Z	NJIC-20-C	NC-20Z-C
S-1320Z	NJIC-20-S	NC-20Z-S
B-2104-1	NF2-4-B	NC-4-B
B-2104-2	NF4-4-B	NC-4-B
B-2105	NF4-5-B	NC-5-B
S-2105	NF4-5-S	NC-5-S
FITT. #40	NMC-10-B	NC-10-B
PT-S-4	NPTS-4-S	NC-4-S
PT-45-4	NPT45-4-S	NC-4-S
PT-90-4	NPT90-4-S	NC-4-S

^{*} Insert Part Number includes nut and short collar

E-Series Crimp Hose Ends and Fittings

E-Series crimp hose ends are permanently attached to Everflex smooth bore hoses using a crimping process. These one-piece hose ends eliminate the need for handling inserts and collars separately which reduces assembly fabrication time. The wide variety of carbon steel end configurations, including 45° and 90° elbows, open opportunities in applications where hose assembly routing space is very tight, such as transit buses and many high temperature hydraulic setups. E-SERIES FITTINGS ARE AVAILABLE FOR SPECIFIC SIZES OF 0.030" WALL HOSE ONLY.

Table of Contents

E-Series Crimp Hose Ends

E-2

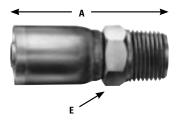


E-Series Crimp

Hose Ends

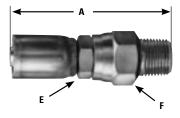
For use with Everflex Hoses S-TW and SC-TW

Male Pipe Rigid (NPT)



Hose I.D.	Carbon Steel Number	Stainless Steel Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	Hole Dia.	Hex E
3/16	03E-102		1/8	1/8–27	1.58	.75	.09	7/16
3/16	03E-104	03ER-104	1/4	1/4–18	1.83	1.00	.09	9/16
1/4	04E-102		1/8	1/8–27	1.60	.75	.16	7/16
1/4	04E-104		1/4	1/4–18	1.79	1.00	.16	9/16
1/4	04E-106		3/8	3/8-18	1.82	1.00	.16	11/16
5/16	05E-104	05ER-104	1/4	1/4–18	1.86	.94	.22	9/16
5/16	05E-106		3/8	3/8-18	1.89	1.00	.22	11/16
3/8	06E-104		1/4	1/4–18	1.90	1.00	.27	9/16
3/8	06E-106		3/8	3/8-18	1.93	1.00	.27	11/16
3/8	06E-108		1/2	1/2–14	2.17	1.25	.27	7/8
13/32	07E-106	07ER-106	3/8	3/8-18	1.93	0.98	0.30	11/16
1/2	08E-106		3/8	3/8-18	2.02	1.00	.38	3/4
1/2	08E-108	08ER-108	1/2	1/2–14	2.27	1.25	.38	7/8
5/8	10E-112	10ER-112	3/4	3/4-14	2.28	1.45	0.50	1-1/16
3/4	12E-112		3/4	3/4-14	2.51	1.31	.61	1-1/16
7/8	14E-116	14ER-116	1	1-11-1/2	2.87	1.59	0.75	1-3/8
1	16E-116		1	1–11-1/2	2.95	1.63	.84	1-3/8

Male Pipe Swivel (NPT)



Hose I.D.	Part Number	Tube Size	Thread Size	Α	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
1/4	04E-J04	1/4	1/4-18	2.68	1-7/8	.16	5/8	13/16
5/16	05E-J04	1/4	1/4-18	2.74	1-7/8	.22	5/8	13/16
3/8	06E-J06	3/8	3/8-18	2.79	1-13/16	.27	11/16	7/8
1/2	08E-J08	1/2	1/2-14	3.03	2-1/16	.38	3/4	7/8
3/4	12E-J12	3/4	3/4-14	3.73	2-9/16	.61	1-1/4	1-1/4

(Not for temperatures above 212°F with nitrile o-rings.)



Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor†	Hole Dia.	Hex E
1/4	04E-504	1/4	7/16-20	1.78	15/16	.16	1/2
1/4	04E-505	5/16	1/2-20	1.78	15/16	.16	9/16
1/4	04E-506	3/8	9/16-18	1.82	1	.16	5/8
5/16	05E-505	5/16	1/2-20	1.86	1	.22	9/16
3/8	06E-506	3/8	9/16-18	1.92	1	.27	5/8
3/8	06E-508	1/2	3/4-16	2.08	13/16	.27	13/16
1/2	08E-508	1/2	3/4-16	2.18	13/16	.38	13/16
1/2	08E-510	5/8	7/8-14	2.31	1-1/4	.38	15/16
3/4	12E-512	3/4	1-1/16-12	2.63	1-7/16	.61	1-1/8
1	16E-516	1	1-5/16-12	2.83	1-1/2	.84	1-3/8



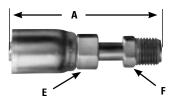
WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

[†] To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose Ends

For use with Everflex Hoses S-TW and SC-TW

Inverted Male Swivel Straight



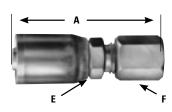
Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor†	Hole Dia.	Hex E	Hex F
1/4	04E-B03	3/16	3/8-24	3.06	2-3/16	.12	7/16	3/8
1/4	04E-B04	1/4	7/16-24	2.44	1-5/8	.15	7/16	7/16
1/4	04E-B05	5/16	1/2-20	3.71	2-7/8	.21	7/16	1/2
3/8	06E-B05	5/16	1/2-20	2.56	1-9/16	.21	9/16	1/2
3/8	06E-B06	3/8	5/8-18	2.18	1-13/16	.24	5/8	5/8
1/2	08E-B08	1/2	3/4-18	3.14	2-1/16	.33	3/4	3/4

Air Brake Connection -Tube



Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor†	Hole Dia.	Hex E	
1/2	08E-Y58	1/2	11/16-20	2.12	1-1/16	.38	3/4	
1/2	08E-Y60	5/8	13/16-18	2.18	1-1/8	.38	7/8	
3/4	12E-Y60	5/8	13/16-18	2.33	1-1/8	.61	1	
3/4	12E-Y62	3/4	1-18	2.40	1-3/16	.61	1	

Flareless Tube Rigid



Hose I.D.	Part Number	Tube Size	Thread Size	Α	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
5/16	05E-756	3/8	9/16-18	1.88	1	.22	5/8	11/16
3/8	06E-755	5/16	1/2-20	1.78	7/8	.23	9/16	5/8
3/8	06E-756	3/8	9/16-18	1.82	15/16	.27	5/8	11/16
1/2	08E-758	1/2	3/4-16	2.08	1-1/16	.38	13/16	7/8

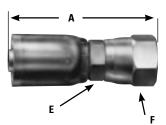
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† To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose Ends

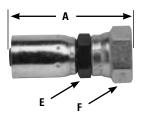
For use with Everflex Hoses S-TW and SC-TW

SAE 37° (JIC) Female Swivel



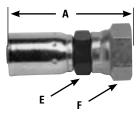
Hose I.D.	Carbon Steel Number	Stainless Steel Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
3/16	03E-6041	03ER-604	1/4	7/16-20	1.89	1-1/32	.09	7/16	9/16
1/4	04E-6041		1/4	7/16-20	1.92	1-1/8	.16	7/16	9/16
1/4	04E-6051		5/16	1/2-20	2.00	1-3/16	.16	1/2	5/8
1/4	04E-6061		3/8	9/16-18	2.05	1-1/4	.16	9/16	11/16
5/16	05E-6051		5/16	1/2-20	2.07	1-3/16	.22	1/2	5/8
5/16	05E-406 ²		3/8	5/8-18	2.06	1-1/8	.22	9/16	3/4
5/16	05E-606 ³	05ER-606	3/8	9/16-18	2.15	1-1/4	.22	9/16	11/16
3/8	06E-406 ²		3/8	5/8-18	2.06	1-1/8	.27	9/16	3/4
3/8	06E-606 ³		3/8	9/16-18	2.19	1-1/4	.27	9/169	11/16
3/8	06E-6081		1/2	3/4-16	2.30	1-3/8	.27	3/4	7/8
13/13	07E-606	07ER-606	3/8	9/16-18	2.15	1-3/16	0.30	9/16	11/16
1/2	08E-6081	08ER-608	1/2	3/4-16	2.45	1-1/2	.38	3/4	7/8
1/2	08E-6101		5/8	7/8-14	2.56	1-1/2	.38	7/8	1
5/8	10E-612	10ER-612	3/4	1-1/16-12	2.50	1-11/16	0.50	1	1-1/4
3/4	12E-412 ²		3/4	1-1/16-14	2.98	1-11/16	.61	1-1/8	1-3/8
7/8	12E-612 ³		3/4	1-1/16-12	2.75	1-9/16	.61	1	1-1/4
7/8	14E-616	14ER-616	1	1-5/16-12	3.09	1-13/16	0.75	1-1/4	1-1/2
1	16E-616 ³		1	1-5/16-12	3.08	1-3/4	.84	1-1/4	1-1/2

British Standard (BSPP) 60° Cone Female Pipe Swivel



Part Number	Tube Size	Thread Size	Α	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
03E-354	1/4	G-1/4-19 •	2.01	1-1/32	.16	9/16	11/16
04E-354	1/4	G-1/4-19 •	1.88	1-1/32	.16	9/16	11/16
06E-356	3/8	G-3/8-19 •	2.09	1-1/8	.27	3/4	7/8
06E-358	1/2	G-1/2-14 •	2.47	1-1/2	.27	13/16	1
08E-358	1/2	G-1/2-14 •	2.56	1-1/2	.39	13/16	1
08E-360	5/8	G-5/8-14 •	2.70	1-21/32	.39	7/8	1-3/16
12E-362	3/4	G-3/4-14 •	2.94	19/32	.61	1	1-1/4
16E-366	1	G-1-11•	3.38	2-1/32	.84	1-1/4	1-1/2
	03E-354 04E-354 06E-356 06E-358 08E-358 08E-360 12E-362	Number Size 03E-354 1/4 04E-354 1/4 06E-356 3/8 06E-358 1/2 08E-358 1/2 08E-360 5/8 12E-362 3/4	Number Size Size 03E-354 1/4 G-1/4-19 • 04E-354 1/4 G-1/4-19 • 06E-356 3/8 G-3/8-19 • 06E-358 1/2 G-1/2-14 • 08E-358 1/2 G-1/2-14 • 08E-360 5/8 G-5/8-14 • 12E-362 3/4 G-3/4-14 •	Number Size Size A 03E-354 1/4 G-1/4-19 • 2.01 04E-354 1/4 G-1/4-19 • 1.88 06E-356 3/8 G-3/8-19 • 2.09 06E-358 1/2 G-1/2-14 • 2.47 08E-358 1/2 G-1/2-14 • 2.56 08E-360 5/8 G-5/8-14 • 2.70 12E-362 3/4 G-3/4-14 • 2.94	Part Number Tube Size Thread Size A Cut-Off Factor 1 03E-354 1/4 G-1/4-19 • 2.01 1-1/32 04E-354 1/4 G-1/4-19 • 1.88 1-1/32 06E-356 3/8 G-3/8-19 • 2.09 1-1/8 06E-358 1/2 G-1/2-14 • 2.47 1-1/2 08E-358 1/2 G-1/2-14 • 2.56 1-1/2 08E-360 5/8 G-5/8-14 • 2.70 1-21/32 12E-362 3/4 G-3/4-14 • 2.94 19/32	Part Number Tube Size Thread Size A Cut-Off Factor Dia. Hole Dia. 03E-354 1/4 G-1/4-19 • 2.01 1-1/32 .16 04E-354 1/4 G-1/4-19 • 1.88 1-1/32 .16 06E-356 3/8 G-3/8-19 • 2.09 1-1/8 .27 06E-358 1/2 G-1/2-14 • 2.47 1-1/2 .27 08E-358 1/2 G-1/2-14 • 2.56 1-1/2 .39 08E-360 5/8 G-5/8-14 • 2.70 1-21/32 .39 12E-362 3/4 G-3/4-14 • 2.94 19/32 .61	Part Number Tube Size Thread Size A Cut-Off Factor End of Factor

Female Swivel JIS 30° Flare



Hose I.D.	Part Number	Tube Size	Thread Size	А	Cut-Off Factor†	Hole Dia.	Hex E	Hex F
1/4	04E-04L	1/4	1/4-19	1.83	1	.16	9/16	3/4
3/8	06E-06L	3/8	3/8-19	2.07	1-1/8	.27	11/16	7/8
1/2	08E-08L	1/2	1/2-14	2.03	1-1/4	.39	13/16	1-1/16
3/4	12E-12L	3/4	3/4-14	2.75	1-17/32	.61	1	1-5/16
1	16E-16L	1	1-11	3.05	1-23/32	.84	1-1/4	1-5/8

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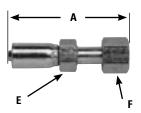
WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

- † To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.
- G in thread size is ISO designation for parallel thread.
- 1 Swivel nuts are universal- Both SAE 45° and JIC 37° connections
- 2 SAE 45°Flare connection only
- 3 JIC 37°Flare connection only

Hose Ends

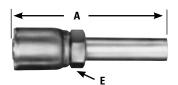
For use with Everflex Hoses S-TW and SC-TW

Female For-Seal® (ORS) Swivel Straight



Hose I.D.	Part Number	Thread Size	A	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
1/4	04E-S64	9/16-18	2.14	1-15/16	.15	5/8	11/16
1/4	04E-S66	11/16-16	2.20	1-3/8	.16	5/8	13/16
5/16	05E-S66	11/16-16	2.28	1-3/8	.22	9/16	13/16
3/8	06E-S66	11/16-16	2.37	1-7/16	.24	9/16	13/16
3/8	06E-S68	13/16-16	2.65	1-11/16	.24	5/8	15/16
1/2	08E-S68	13/16-16	2.74	1-11/16	.33	3/4	15/16
1/2	08E-S70	1-14	2.83	1-13/16	.39	3/4	1-1/8
3/4	12E-S72	1-3/16-12	2.98	1-3/4	.59	1	1-3/8
1	16E-S76	1-7/16-12	3.31	2	.76	1-1/4	1-5/8

Straight Tube Brass



Hose I.D.	Part Number	Tube Size	Thread Size	A	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	
1/2	08E-T58	1/2	11/16-20	3.32	2.31	.39	3/4	
1/2	08E-T60	5/8	13/16-18	3.45	2.44	.47	3/4	
3/4	12E-T60	5/8	13/16-18	3.66	2.44	.47	1	
3/4	12E-T62	3/4	1-18	4.00	2.81	.61	1	

Sleeve - Nut



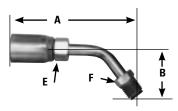


Tube I.D.	Part Number Sleeve	Part Number Nut	
3/8	1360X6	1361X6	
1/2	1360X8	1361X8	
5/8	1360X10	1361X10	
3/4	1360X12	1361X12	

Hose Ends

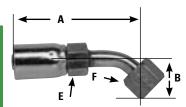
For use with Everflex Hoses S-TW and SC-TW

Inverted Male Swivel 45° Tube Elbow



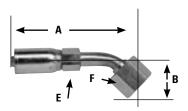
Hose I.D.	Part Number	Tube Size	Thread Size	A	В	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F	
1/4	04E-B43	3/16	3/8-24	2.79	.69	1-5/16	.12	7/16	3/8	
1/4	04E-B44	1/4	7/16-24	2.74	.93	1-15/16	.15	7/16	7/16	
3/8	06E-B45	5/16	1/2-20	3.37	1.14	2-7/16	.21	9/16	1/2	
3/8	06E-B46	3/8	5/8-18	3.63	1.34	2-11/16	.24	5/8	5/8	
1/2	08E-B48	1/2	3/4-18	4.32	1.58	3-1/4	.33	3/4	3/4	

SAE 37° (JIC) Female Swivel 45° Tube Elbow



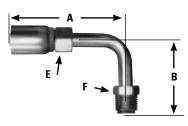
Hose I.D.	Part Number	Tube Size	Thread Size	Α	В	Hose Cut-Off Factor†	Hole Dia.	Hex E	Hex F
1/4	04E-6841	1/4	7/16-20	2.37	.33	1-9/16	.15	7/16	9/16
1/4	04E-6851	5/16	1/2-20	2.50	.36	1-5/8	.16	7/16	5/8
5/16	05E-686 ³	3/8	9/16-18	2.65	.39	1-11/16	.22	9/16	11/16
3/8	06E-686 ³	3/8	9/16-18	2.74	.39	1-3/4	.24	5/8	11/16
3/8	06E-6881	1/2	3/4-16	2.99	.55	2	.27	5/8	7/8
1/2	08E-6881	1/2	3/4-16	3.08	.55	2	.33	3/4	1
1/2	08E-6901	5/8	7/8-12	3.28	.63	2-1/4	.37	3/4	1
3/4	12E-692 ³	3/4	1-1/16-12	3.69	.78	2-7/16	.58	1	1-1/4
1	16E-696 ³	1	1-5/16-12	4.09	.89	2-3/4	.84	1-1/4	1-1/2

Female For-Seal® Swivel 45° Tube Elbow



Hose I.D.	Part Number	Thread Size	A	В	Hose Cut-Off Factor†	Hole Dia.	Hex E	Hex F	
1/4	04E-L64	9/16-18	2.46	.41	1-5/8	.15	7/16	11/16	
3/8	04E-L66	11/16-16	2.69	.43	1-3/4	.15	5/8	13/16	
3/8	06E-L66	11/16-16	2.79	.43	1-13/16	.24	5/8	13/16	
1/2	08E-L68	13/16-16	3.14	.60	2-1/8	.33	3/4	15/16	
3/4	12E-L72	1-3/16-12	3.38	.83	2-5/8	.59	1	1-3/8	
1	16E-L76	1-7/16-12	4.31	.94	3	.76	1-1/4	1-5/8	

Inverted Male Swivel 90° Tube Elbow



Hose I.D.	Part Number	Tube Size	Thread Size	A	В	Cut-Off Factor [†]	Hose Hole Dia.	Hex E	Hex F
1/4	04E-B63	3/16	3/8-24	2.16	1.06	1-5/16	.12	7/16	3/8
1/4	04E-B64	1/4	7/19-24	2.18	1.36	1-5/16	.15	7/16	7/16
3/8	06E-B65	5/16	1/2-20	2.58	1.16	1-5/8	.21	9/16	1/2
3/8	06E-B66	3/8	5/8-18	2.92	1.97	1-15/16	.24	5/8	5/8
1/2	08E-B68	1/2	3/4-18	3.03	2.32	1-15/16	.33	3/4	3/4

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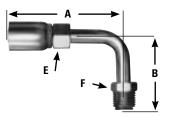
WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

- † To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.
- 1 Swivel nuts are universal- Both SAE 45° and JIC 37° connections
- 2 SAE 45°Flare connection only
- 3 JIC 37°Flare connection only

Hose Ends

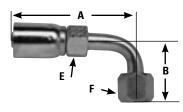
For use with Everflex Hoses S-TW and SC-TW

Inverted Male Swivel 90° **Tube Elbow**



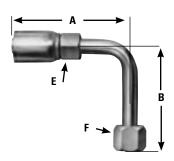
Hose I.D.	Part Number	Tube Size	Thread Size	A	В	Cut-Off Factor†	Hose Hole Dia.	Hex E	Hex F
1/4	04E-B63	3/16	3/8-24	2.16	1.06	1-5/16	.12	7/16	3/8
1/4	04E-B64	1/4	7/19-24	2.18	1.36	1-5/16	.15	7/16	7/16
3/8	06E-B65	5/16	1/2-20	2.58	1.16	1-5/8	.21	9/16	1/2
3/8	06E-B66	3/8	5/8-18	2.92	1.97	1-15/16	.24	5/8	5/8
1/2	08E-B68	1/2	3/4-18	3.03	2.32	1-15/16	.33	3/4	3/4

SAE 37° (JIC) Female Swivel 90° Tube Elbow



Hose I.D.	Part Number	Tube Size	Thread Size	A	В	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F
1/4	04E-6641	1/4	7/16-20	2.27	.68	1-7/16	.15	7/16	9/16
1/4	04E-6651	5/16	1/2-20	2.51	.77	1-5/8	.16	7/16	5/8
5/16	05E-6651	5/16	1/2-20	2.58	.77	1-5/8	.18	9/16	5/8
5/16	05E-666 ³	3/8	9/16-18	2.63	.85	1-11/16	.22	9/16	11/16
3/8	06E-466 ³	3/8	5/8-18	2.27	.85	1-3/4	.24	5/8	11/16
3/8	06E-666 ³	3/8	9/16-18	2.72	.85	1-3/4	.24	5/8	11/16
3/8	06E-6681	1/2	3/4-16	2.83	1.09	1-3/4	.27	5/8	7/8
1/2	08E-6681	1/2	3/4-16	2.93	1.09	1-7/8	.33	3/4	7/8
1/2	08E-6701	5/8	7/8-14	3.54	1.23	1-7/8	.38	3/4	1
3/4	12E-672 ³	3/4	1-1/16-12	3.56	1.82	2-5/16	.58	1	1-1/4
1	16E-676 ³	1	1-5/16-12	4.06	2.14	2-5/16	.84	1-1/4	1-1/2

SAE 37° (JIC) Female Swivel Long Drop 90° **Tube Elbow**



Hose I.D.	Part Number	Tube Size	Thread Size	A	В	Hose Cut-Off Factor	Hole Dia.	Hex E	Hex F
1/4	04E-6641	1/4	7/16-20	2.40	1.80	1-7/16	.15	7/16	9/16
1/4	04E-6451	5/16	1/2-20	2.51	1.80	1-5/8	.16	7/16	5/8
5/16	05E-646 ³	3/8	9/16-18	2.63	2.18	1-11/16	.22	9/16	11/16
3/8	06E-646 ³	3/8	9/16-18	2.72	2.18	1-3/4	.24	5/8	11/16
3/8	06E-6481	1/2	3/4-16	2.83	2.43	1-7/8	.27	5/8	11/16
1/2	08E-6481	1/2	3/4-16	2.92	2.43	1-7/8	.33	3/4	7/8
1/2	08E-6501	5/8	7/8-14	3.09	2.57	2-1/16	.38	3/4	1
1/2	2E-652 ³	5/8	1-1/16-12	3.60	3.60	2-3/8	.58	1	1-1/4
1	16E-656 ³	1	1-5/16-12	4.20	4.20	2-13/16	.84	1-1/4	1-1/2

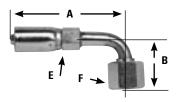
WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and WARNING: Selection of the proper end fitting for the lose end application is essential to the proper end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

- † To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.
- 1 Swivel nuts are universal- Both SAE 45° and JIC 37° connections
- 2 SAE 45°Flare connection only
- 3 JIC 37°Flare connection only

Hose Ends

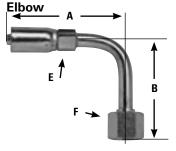
For use with Everflex Hoses S-TW and SC-TW

Female For-Seal® (ORS) Swivel Short Drop 90° Tube Elbow



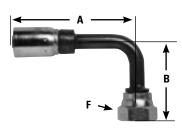
Hose I.D.	Part Number	Thread Size	A	В	Hose Cut-Off Factor [†]	Hole Dia.	Hex E	Hex F	
1/4	04E-A24	9/16-18	2.35	.81	1-1/2	.21	7/16	11/16	
1/4	04E-A26	11/16-16	2.54	.90	1-11/16	.16	5/8	13/16	
3/8	06E-A26	11/16-16	2.71	.90	1-3/4	.24	5/8	13/16	
3/8	06E-A28	13/16-16	2.81	1.15	1-7/8	.27	5/8	15/16	
1/2	08E-A28	13/16-16	2.90	1.15	1-7/8	.33	3/4	15/16	
3/4	12E-A32	1-3/16-12	3.70	1.88	2-1/2	.59	1	1-3/8	
1	16E-A36	1-7/16-12	4.11	2.21	2-3/4	.76	1-1/4	1-5/8	

Female For-Seal® (ORS) Swivel Long Drop 90° Tube



Hose I.D.	Part Number	Thread Size	А	В	Hose Cut-Off Factor†	Hole Dia.	Hex E	Hex F	
1/4	04E-A64	9/16-18	2.41	1.80	1-9/16	.21	7/16	11/16	
5/16	05E-A66	11/16-18	2.73	2.12	1-13/16	.22	9/16	13/16	
3/8	06E-A66	11/16-16	2.82	2.21	1-7/8	.24	5/8	13/16	
3/8	06E-A68	13/16-16	2.80	2.50	1-7/8	.27	5/8	15/16	
1/2	08E-A68	13/16-16	2.89	2.50	1-7/8	.33	3/4	15/16	

British Standard (BSPP) 60° Cone Female Pipe Swivel 90° Elbow



Hose I.D.	Part Number	BSPP Tube Size	Thread Size	A	В	Hose Cut-Off Factor†	Hole Dia.	Hex E	Hex F
1/4	04E-74P	1/4	G-1/4-19 •	2.81	1.45	1-13/16	.16	7/16	11/16
3/8	06E-76P	3/8	G-3/8-19 •	2.96	1.67	2	.27	5/8	7/8
1/2	08E-78P	1/2	G-1/2-14 •	2.95	1.73	1-29/32	.37	3/4	1-1/4
3/4	12E-82P	3/4	G-3/4-14 •	3.83	2.43	1-19/32	.61	1	1-1/4

A

WARNING: Selection of the proper end fitting for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the end fittings for your application can result in leaking or the hose end blowing off the hose, leading to serious personal injury, death or property damage.

- † To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.
- \bullet G in thread size is ISO designation for parallel thread.

Field Attachable Fittings

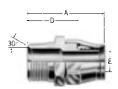
Table of Contents

Fittings for use with Everflex Hoses S-TW and SC-TW

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Male Pipe NPTF



Part Number	Thread	Hose I.D.	A	D	Eø
38-190627-					
2–4*	1/8-27	3/16	1.35	.89	.16
4–4*	1/4-18	3/16	1.54	1.08	.16
4–5*	1/4-18	1/4	1.58	1.07	.23
4–6*	1/4-18	5/16	1.66	1.13	.28
6-6*	3/8-18	5/16	1.66	1.13	.28
6–8*	3/8-18	13/32	1.79	1.16	.38
8–10*	1/2-14	1/2	2.13	1.46	.47
12–12*	3/4-14	5/8	2.26	1.61	.59
16–16*	1-11-1/2	7/8	2.48	1.86	.83

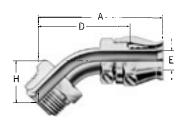
 $^{^{\}star}$ Also supplied in stainless steel. Add suffix "C" to part number and delete prefix "38". Example part number for stainless steel is 190627-4-5C.

2-Bolt Swivel Flange



Part Number	Flange Head Diameter	Hose I.D.	Α	D	Eø
63-190626-					
6	2.88	5/16	1.78	1.26	.28
12	2.88	5/8	2.07	1.42	.56
16	2.88	7/8	2.18	1.49	.19

SAE Male Inverted Flare 45° Elbow

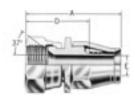


Part Number	Thread	Hose I.D.	Α	D	Eø	н
FC9063-						
0505S	1/2-20	1/4	2.46	1.94	.23	.96
0506S	1/2-20	5/16	2.50	1.97	.21	.96
0606S	5/8-18	5/16	2.50	1.97	.28	.96
0808S	3/4-18	13/32	2.66	2.04	.38	.93
1010S	7/8-18	1/2	2.96	2.29	.47	1.03
1212S	11/16-16	5/8	3.10	2.44	.59	1.10

Field Attachable Fittings

For use with Everflex Hose S-TW and SC-TW

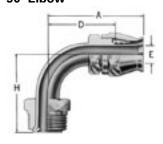
SAE 37° (JIC) Swivel



Part Number	Thread	Hose I.D.	Α	D	Εø
63-190600-					
4*	7/16-20	3/16	1.58	1.13	.16
5*	1/2-20	1/4	1.68	1.17	.23
6*	9/16-18	5/16	1.74	1.22	.26
8*	3/4-16	13/32	1.98	1.35	.38
10*	7/8-14	1/2	2.22	1.54	.47
12*	1-1/16-12	5/8	2.33	1.67	.59
16*	1-15/16-12	7/8	2.52	1.91	.83

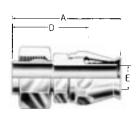
^{*} Also supplied in stainless steel. Add suffix "C" to part number and delete prefix "63". Example part number for stainless steel is 190600-6C.

SAE Male Inverted Flare 90° Elbow



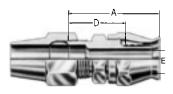
Part Number	Thread	Hose I.D.	A	D	Eø	н
190950-						
4S	7/16-24	3/16	2.04	1.57	.16	1.69
5S	1/2-20	1/4	2.08	1.57	.23	1.69
5-6S	1/2-20	5/16	2.12	1.60	.21	1.69
6S	5/8-18	5/16	2.12	1.60	.28	1.73
8S	3/4-18	13/32	2.32	1.69	.38	1.74
10S	7/8-18	1/2	2.66	1.99	.47	2.21
12S	1-1/16-16	5/8	2.73	2.07	.59	2.35

SAE Ball Sleeve



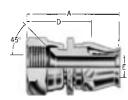
Part Number	Thread	Hose I.D.	A	D	Eø
190718-					
8S	11/16-20	13/32	2.07	1.44	.38
10 - 8S	13/16-18	13/32	2.07	1.44	.38
10S	13/16-18	1/2	2.16	1.49	.48
12S	1-18	5/8	2.42	1.76	.59

Compression Ball Sleeve



Part Number	Hose I.D.	Α	D	Eø	
38–191074–					
8	13/32	1.66	1.04	.38	
10	1/2	1.85	1.18	.47	
12	5/8	2.08	1.41	.59	

SAE 45° Swivel

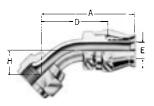


Part Number	Thread	Hose I.D.	A	D	Εø
63-190990-					
4	7/16-20	3/16	1.58	1.12	.16
5	1/2-20	1/4	1.68	1.17	.23
6	5/8-18	5/16	1.77	1.25	.28
8	3/4-16	13/32	1.98	1.36	.38
10	7/8-14	1/2	2.22	1.54	.47
12	1-1/16-14	5/8	2.33	1.67	.59

Field Attachable Fittings

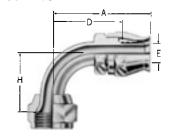
For use with Everflex Hose S-TW and SC-TW

45° Elbow



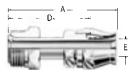
Part Number	Thread	Hose I.D.	A	D	Eø	h
190773-	Universal					
4S	7/16-20	3/16	1.51	1.05	.16	.33
5S	1/2-20	1/4	1.62	1.11	.23	.36
6S	9/16-18	5/16	1.72	1.20	.28	.39
8S	3/4-16	13/32	2.27	1.64	.38	.55
10S	7/8-14	1/2	2.46	1.79	.47	.64
12S	11/16-12	3/8	2.86	2.21	.59	.78
16S	15/16-12	7/8	3.30	2.68	.83	1.07
FC9341-	SAE 45° Swivel					
0606S	5/8-18	5/16	1.72	1.20	.28	.39
1212S	1-1/16-14	5/8	2.86	2.21	.59	.78

90° Elbow



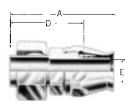
Part Number	Thread	Hose I.D.	A	D	Eø	h
190772-	Universal					
4S	7/16-20	3/16	1.41	.95	.16	.68
5S	1/2-20	1/4	1.52	1.00	.23	.77
6S	9/16-18	5/16	1.62	1.10	.28	.85
8S	3/4-16	13/32	2.03	1.41	.38	1.09
10S	7/8-14	1/2	2.16	1.49	.47	1.23
10-12S	7/8-14	5/8	2.23	1.57	.46	1.23
12S	1-1/16-12	5/8	2.82	2.17	.59	1.82
12-16S	1-1/16-14	7/8	2.87	2.22	.58	1.82
16S	1-5/16-12	7/8	3.10	2.49	.82	2.39
FC9171-	SAE 45° Swivel					
0606S	5/8-18	5/16	1.62	1.10	.28	.85
1212S	1-1/16-14	5/8	2.80	2.19	.59	1.82

SAE Male Inverted Flare Straight



Part Number	Thread	Hose I.D.	A	D	Εø
FC9062-					
0404S	7/16-24	3/16	2.13	1.66	.16
0505S	1/2-20	1/4	2.17	1.66	.23
0506S	1/2-20	5/16	2.21	1.69	.21
0606S	5/8-18	5/16	2.21	1.69	.28
0808S	3/4-18	13/32	2.47	1.84	.38
1010S	7/8-18	1/2	2.78	2.11	.47
1212S	1-1/16-16	5/8	3.02	2.37	.59

Special Ball Sleeve



Part Number	Thread	Hose I.D.	A	D	Eø
190742-					
10S	7/8-18	1/2	2.16	1.49	.48

Everflex Hose Accessories

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Firesleeve and Chafe Sleeve	G-2
Spring Guards	G-3
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Everflex tubular firesleeve has a coating of specially compounded silicone rubber bonded to a low density, high bulk fiberglass sleeve. This combination offers a temporary barrier to flame penetration and provides long term mechanical and environmental protection. Ideal applications include steel

plants, foundries, glass plants, and welding/cutting shops.

Operating temperatures:

Continuous: -65° to +500°F

Intermittent: -65° to +2000°F

Tested in accordance with: UL-73, NFPA-250, ASTM-E84

Hose Size	Hose I.D.	Assembly Part Number
-4	3/16	SFS-1/2
-5	1/4	SFS-1/2
-6	5/16	SFS-11/16
-8	13/32	SFS-11/16
-10	1/2	SFS-11/16
-12	5/8	SFS-15/16
-16	7/8	SFS-1 1/4
-16Z‡	7/8	SFS-1 1/4
-20Z‡	1-1/8	SFS-1 1/2

Heat Shrinkable Chafe Sleeve



Operating temperature: -65° to +275°F

Everflex heat shrink chafe sleeve is made of black flame retardant polyolefin. In addition to providing excellent chafe resistance, the sleeve can also be wiped clean. This problem solver is ideal for any application where the assembly is subjected to abuse through abrasion.

Hose Size	Hose I.D.	Assembly Part Number
-4	3/16	HSP-1/2
-5	1/4	HSP-1/2
-6	5/16	HSP-3/4
-8	13/32	HSP-5/8
-10	1/2	HSP-1
-12	5/8	HSP-1
-16	7/8	HSP-1 1/2
-16Z‡	7/8	HSP-1 1/2
-20Z‡	1-1/8	HSP-1 1/2

[‡] The 16Z, and 20Z sizes have a double stainless steel wire reinforcement.

Everflex Hose Accessories

Spring Guards

Spring Guard



Everflex spring guard is available in hot dipped galvanized carbon steel. This method of protection is well suited for applications where rough handling, abrasion and severe flexing will occur. Spring guards are required on some fuel dispensing applications.

Hose Size	Hose I.D.	Assembly Part Number
-4	3/16	2004
-5	1/4	2005
-6	5/16	2006
-8	13/32	2008
-10	1/2	2010
-12	5/8	2012
-16	7/8	2016
-16Z‡	7/8	2016Z
-20Z‡	1-1/8	2020Z

Tight Pitch Spring Guard



Everflex spring guard is available in hot dipped galvanized carbon steel. This method of protection is well suited for applications where rough handling, abrasion and severe flexing will occur. Tight pitch spring guard is widely accepted in maintenance applications on rubber tire manufacturing presses.

Hose Size	Hose I.D.	Assembly Part Number	
-4	3/16	2004T	
-5	1/4	2005T	
-6	5/16	2006T	
-8	13/32	2008T	
-10	1/2	2010T	
-12	5/8	2012T	
-16	7/8	2016T	
-16Z‡	7/8	2016ZT	
-20Z‡	1-1/8	2020ZT	

302 Stainless Steel Internal Support Coil



Everflex internal support coil is available in 302 stainless steel.

Hose Size	Hose I.D.	se I.D. Assembly Part Number		
-5*	1/4	2005		
-8	13/32	2008		
-16	7/8	2016l		
-20Z‡	1-1/8	2020ZI		

[‡] The 16Z, and 20Z sizes have a double stainless steel wire reinforcement.

^{*} Closed pitch coil with round wire.

EATON® Guardian™

Guardian Sleeve



Eaton's Guardian Sleeve is designed to provide protection against hydraulic hose failure by containing pressure and fluids that may escape during a hose burst or pinhole leak. With this line of sight sleeving which meets industry standards, both equipment operators and the environment are guarded from the effects of hose failures.

Benefits

- Meets new line of sight operator specification EN982 ISO norm 833 EN414 and ISO 3457
- The ultra tight weave resists oil spillage from hose failure
- Meets ASTM D6770 for abrasion resistance of textile webbing
- Meets abrasion standard ISO 6945
- Meets Fed-STD191-Test Method 5309 for abrasion
- Densely twisted polyamide 6 yarn offers optimum UV and abrasion protection
- MSHA approved # IC-234/0 – Meets standard application procedures for acceptance of Flame Resistance Solid Products taken into mines
- Meets Conductivity Requirements of ISO 8031
- Tight, smooth surface resists wear

Chemical Compatibility Chart for Guardian Sleeving

Chemical	Compatibility		
Gasoline	Very Good		
Oil	Very Good		
Mineral and Vegetable Oil	Very Good		
Ionic Metallic Solutions	Very Good		
Alcohols	Very Good		
Diluted Bases	Very Good		
Diluted acids	Good		
Benzene	Very Good		
Acetone	Very Good		
Ether	Very Good		
Carbon Tetrachloride	Very Good		
Chlorine Based Solvent	Very Good		
Mold, Bacteria, Moths	Very Good		

^{*}Strong and concentrated acids; ie. Hcl or Formic Acid may have some corrosive action.

Denier: 1260

Melting Point: 215°C/420°F

Material: Polyamide 6, made with pre-dyed yarn

Dim. Stability: Great resistance to sun, atmospheric

agents and aging

Toxicity: Non-Toxic

Color: Black

Packing Requirements: Eaton Guardian Sleeve comes in a 300 foot roll with no more than 3 cuts per roll and no piece shorter than 30 feet.

* Slide sleeve onto the hose before assembling the ends. After assembly, clamp the hose onto the fitting using a metal banding product.

Properties	Specication	Description
Burst Pressure	16,000 psi	Capable to contain hose burst up to 16,000 psi
Pin Hole Leak Pressure	4,000 psi	Sustained 4,000 psi pin hole deflection from focused 1mm pin hole
Abrasion Cycles	250,000	Holds up to 250,000 Abrasion cycles per ISO 6945

General and Dimensional Information

Part Number	Nominal I.D. (in)	A – Flat Width (in) +/- 0.125	Weights in Ibs per 300 ft Roll	Rolls per Box
FF90754-68	0.68	1.290	7.43	8
FF90754-79	0.79	1.400	8.50	7
FF90754-91	0.91	1.590	9.70	6
F90754-98	0.98	1.590	10.13	6
FF90754-106	1.06	1.825	11.10	5
FF90754-122	1.22	2.076	12.60	4
FF90754-142	1.42	2.390	14.50	4
FF90754-157	1.57	2.650	16.10	3
FF90754-173	1.73	2.910	17.70	3
FF90754-185	1.85	3.100	18.80	3
FF90754-209	2.09	3.470	21.10	2
FF90754-219	2.19	3.630	22.10	2
FF90754-238	2.38	3.925	23.90	2
FF90754-288	2.88	4.714	28.60	2
FF90754-366	3.66	5.938	36.10	1

Guardian Sleeve Selection Chart

Sleeve I.D. (in)	Max Hose OD that Sleeve can accept (in)	Hose Size as a Ref.
0.68	0.52	-4
0.79	0.61	-4
0.91	0.70	-6
0.98	0.76	-6
1.06	0.80	-6
1.22	0.92	-8
1.42	1.02	-10
1.57	1.13	-10
1.73	1.24	-12
1.85	1.34	-16
2.09	1.50	-16
2.19	1.54	-20
2.38	1.70	-20
2.88	2.00	-20
3.66	2.40	-24
	1.D. (in) 0.68 0.79 0.91 0.98 1.06 1.22 1.42 1.57 1.73 1.85 2.09 2.19 2.38 2.88	Sleeve I.D. (in) that Sleeve can accept (in) 0.68 0.52 0.79 0.61 0.91 0.70 0.98 0.76 1.06 0.80 1.22 0.92 1.42 1.02 1.57 1.13 1.73 1.24 1.85 1.34 2.09 1.50 2.19 1.54 2.38 1.70 2.88 2.00

Assembly Equipment

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E-Series Barrel Crimp Tooling Selector Chart	H-4
Conv-O-Crimp Equipment & Tooling	H-6
Field Attachable Fittings Assembly Equipment	H-7



T-400-1 Everswage Press



T-401-EF Fabricating Distributor Kit

Fabricating distributor kit including a press with master pusher, hydraulic pump, hose assembly, swage die holder, pusher adapters, and swage dies for 'S' Series, .040 wall hose -4 to -16.

T-400-71 Conversion Kit for Weatherhead T-400-1 Press

Conversion kit for Weatherhead T-400-1 press including master pusher, swage die holder, and pusher adapters.

T-400-89 Conversion Kit for Weatherhead T-400-1 Press

Conversion kit for Weatherhead T-400-1 press including master pusher, swage die holder, pusher adapter and swage dies for 'S' Series, .040 wall hose -4 to -16.

TE-Kit

Includes all tube expanders for smooth bore hose.

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

The use or intermixing of fittings and hose not specifically engineered and designed for use with the Everflex equipment may result in the production of an unsafe or unreliable hose assembly. The Everflex limited warranty is contingent upon the fact that only Everflex end fittings and Everflex hose be used on Everflex assembly equipment.

Model #	Description		
T-400-1EF	Everswage Press w/ Master Pusher*		
T-400-16	Hose Assembly		
T-400-72	Pusher Adapter		
T-400-73	Pusher Adapter		
T-400-74	Pusher Adapter		
T-400-75	Pusher Adapter		
T-400-76	Pusher Adapter		
T-400-77	Pusher Adapter		
T-400-78	Pusher Adapter		
T-400-79	Pusher Adapter		
T-400-80	Pusher Adapter		
T-400-81	Pusher Adapter		
T-400-82	Pusher Adapter		
PT-Pusher	Power Trim Fitting Pusher		
T-400-84	Master Pusher		
T-400-85	Swage Die Holder		
T-421U	Hydraulic Pump		
T-400-BB	Convert switch for T-421U Pump		
TE-3	Tube Expander for -3		
TE-4	Tube Expander for -4		
TE-5	Tube Expander for -5		
TE-6	Tube Expander for -6		
TE-8	Tube Expander for -8		
TE-10	Tube Expander for -10		
TE-12	Tube Expander for -12		

Model #	Description
TE-16	Tube Expander for -16
TE-20	Tube Expander for -20
T-400-ED	Pusher Selector Decal
.040" Wall	Swage Dies
SD-3-15	Swage Die 1/8"
SD-4-15	Swage Die 3/16"
SD-5-15	Swage Die 1/4"
SD-6-15	Swage Die 5/16"
SD-8-15	Swage Die 13/32"
SD-10-15	Swage Die 1/2"
SD-12-15	Swage Die 5/8"
SD-16-15	Swage Die 7/8"
SD-20Z-15	Swage Die 1-1/8"
.030 Wall	Swage Dies
SD-4TW-15	Swage Die 3/16" TW
SD-5TW-15	Swage Die 1/4" TW
SD-6TW-15	Swage Die 5/16" TW
SD-8TW-15	Swage Die 13/32" TW
SD-10TW-15	Swage Die 1/2" TW
SD-12TW-15	Swage Die 5/8" TW
SD-16TW-15	Swage Die 7/8" TW
EFH-135X	50 Drawer Cabinet
EFS-100	Blank Labels for EFH-135X

^{*} Requires the T-421U pump

T-421U Electric Pump



Dimensions	/ 1/2" high, 10" wide, 22" long
Weight	66 lbs.
Reservoir Size	145 cu. in.
Outlet Port Size	3/4"-16 Straight Thread Orb
Motor	1 H.P., 3450 RPM, 115/220 Volts, 60 Cycles, Single Phase
Hydraulic Oil	Gulf Harmony 100 AW Gulf Harmony 64 or 68, SAE 10 Grade, ISO-32, SAE 20 Grade, Sunvis 931, Mobil DTE 26 or, Mobil DTE 24 (30°F Below)
Reservoir Capacity	3 Quarts
Flow	0.5 GPM

Everswage

Tooling Selector Chart

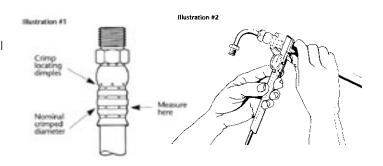
					B, M, S, SC Series	STW, SCTW Series
lose .D.	Hose End	0.040″ Wall Hose Swage Die	0.030″ Wall Hose Swage Die	Pusher Adapter	0.040″ Wall Hose Dia	0.030″ Wall Hose Dia
5/32	1103	SD-3-15	NA	T-400-73	.308	.367
3/16	1104-1	SD-4-15	SD-4TW-15	T-400-73	.382	.367
3/16	1104-2	SD-4-15	SD-4TW-15	T-400-72	.382	.453
/4	1105	SD-5-15	SD-5TW-15	T-400-72	.468	.453
1/4	1105-1/8	SD-5-15	SD-5TW-15	T-400-73	.468	.453
5/16	1106-1	SD-6-15	SD-6TW-15	T-400-72	.533	.518
5/16	1106-2	SD-6-15	SD-6TW-15	T-400-80	.533	.518
5/16	1106-3	SD-6-15	SD-6TW-15	T-400-78	.533	.518
13/32	1108-1	SD-8-15	SD-8TW-15	T-400-79	.632	.614
13/32	1108-2	SD-8-15	SD-8TW-15	T-400-78	.632	.614
1/2	1110	SD-10-15	SD-10TW-15	T-400-77	.739	.724
5/8	1112	SD-12-15	SD-12TW-15	T-400-76	.883	.875
1/8	1116	SD-16-15	SD-16TW-15	T-400-74	1.194	1.179
/8	1116Z	SD-16-15	NA NA	T-400-74	1.194	NA
-1/8	1120Z	SD-20Z-15	NA	Not Needed	1.423	NA
/32	1303	SD-3-15	NA	T-400-81	.308	NA
5/32	1303-4	SD-3-15	NA	T-400-81	.308	NA
3/16	1304	SD-4-15	SD-4TW-15	T-400-81	.382	.367
/4	1305	SD-5-15	SD-5TW-15	T-400-72	.468	.453
5/16	1306	SD-6-15	SD-6TW-15	T-400-72	.533	.518
3/32	1308	SD-8-15	SD-8TW-15	T-400-72	.632	.614
-		SD-10-15		T-400-76		.724
/2	1310	SD-10-15 SD-12-15	SD-10TW-15		.739 .883	
5/8	1312		SD-12TW-15	T-400-76		.875
7/8	1316	SD-16-15	SD-16TW-15	T-400-75	1.194	1.179
1/8	1316Z	SD-16-15	NA	T-400-75	1.194	NA
-1/8	1320Z	SD-20Z-15	NA OB 4TM 45	T-400-74	1.423	NA
3/16	#30	SD-4-15	SD-4TW-15	T-400-81	.382	.367
1/4	#31	SD-5-15	SD-5TW-15	T-400-72	.468	.453
5/16	#32	SD-6-15	SD-6TW-15	T-400-72	.533	.518
3/32	#33	SD-8-15	SD-8TW-15	T-400-78	.632	.614
/2	#34	SD-10-15	SD-10TW-15	T-400-76	.739	.724
5/8	#35	SD-12-15	SD-12TW-15	T-400-76	.883	.875
3/16	2104-1	SD-4-15	SD-4TW-15	T-400-82	.382	.367
3/16	2104-2	SD-4-15	SD-4TW-15	T-400-81	.382	.367
1/4	2105	SD-5-15	SD-5TW-15	T-400-81	.468	.453
/16	STE4-4	SD-4-15	SD-4TW-15	TE4-4 With T-400-75	.382	.367
/4	STE4-5	SD-5-15	SD-5TW-15	TE4-5 With T-400-75	.468	.453
/16	STE6-6	SD-6-15	SD-6TW-15	TE6-6 With T-400-75	.533	.518
3/32	STE8-8	SD-8-15	SD-8TW-15	TE8-8 With T-400-75	.632	.614
5/8	STE12-12	SD-12-15	SD-12TW-15	TE12-12 With T-400-75	.883	.875
/8	STE16-16	SD-16-15	SD-16TW-15	TE16-16 With T-400-75	1.194	1.179
5/16	B-6LFC	SD-6-15	SD-6TW-15	T-400-73	.533	.518
5/8	#60	SD-12-15	SD-12TW-15	Consult Factory	.883	.875
/8	#62	SD-16-15	SD-16TW-15	Consult Factory	1.194	1.179
/4	C-5PS	SD-5-15	SD-5TW-15	T-400-81	.468	.453
/16	PT-S-4	SD-4-15	SD-4TW-15	PT-Pusher	.382	.367
/16	PT-45-4	SD-4-15	SD-4TW-15	PT-Pusher	.382	.367
/16	PT-90-4	SD-4-15	SD-4TW-15	PT-Pusher	.382	.367
/2	10-S.37-316	SD-10-15	SD-10TW-15	T-400-82	.739	.724
/8	16-S.87-316	SD-16-15	SD-16TW-15	T-400-82	1.194	1.179
/2	#40	SD-10-15	Sd-10TW-15	40 With T-40-75	.739	.724
1/2	#41	SD-10-15	SD-10TW-15	TE10-10 With T-400-75	.739	.724

Nominal Crimp Diameter Measurement

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

- 1. Measure the diameter in the middle of the crimped portion of the hose end. (see illustration #1)
- Place the caliper in a position to allow a measurement in the horizontal depressions of the crimp spaced 180° apart. (see illustration #1 & #2)
- 3. See crimp diameters on the following chart.

Note: In the larger sizes, calipers may be used; however in the smaller sizes, a point micrometer will provide an accurate reading.



Model #	Decription			
T-400-30C Kit includes 1 each of all collets				
FS-1200 Label set/Layout Guide				
T-400-8	Die Ring			
T-432-15	Master Pusher			
T-400-37	Green Spacer Ring			
T-400-38	Red Spacer Ring			
T-400-112	Tan Spacer Ring			

E-Series Barrel Crimp Tooling

For crimping E-Series hose ends using the Everswage Press or T-400

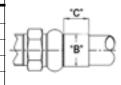
Hose Dash Size	Hose I.D.	Hose End Prefix	Collet	Spacer Ring Color	Spacer Ring Flat Size (Up Or Down)	Nominal Crimp Dia +/003"
S-4TW	3/16	03E	T-400-113C	Tan	Up	.355
S-5TW	1/4	04E	T-400-31C	Green	Up	.405
S-6TW	5/16	05E	T-400-32C	Red	Up	.475
S-7TW	3/8	06E	T-400-33C	Red	Up	.545
S-10TW	1/2	08E	T-400-34C	Red	Up	.695
S-14TW	3/4	12E	T-400-35C	Red	Up	.978
S-18ZTW	1	16E	T-400-36C	Red	Up	1.225

NOTE: Spacer Rings not included in T-400-30C Kit.

E-Series Flat Crimp Tooling

For S-TW and SC-TW Hoses

Hose Size	E-Series Fitting	Crimp	Diameter "B"	Crimp Die Cage	Crimp Position "C"	
		mm	in		mm	in
-4 PTFE Hose	03E-xxx / 03ER-xxx	9.4 ± 0.10	.370 ± .005	FT1380-275-M090	14.5 ± 0.76	.57 ± .030
-6 PTFE Hose	05E-xxx / 05ER-xxx	12.3 ± 0.10	.485 ± .005	FT1380-275-M120	19.6 ± 0.76	.77 ± .030
-8 PTFE Hose	07E-xxx / 07ER-xxx	14.9 ± 0.10	.587 ± .005	FT1380-200-M150	19.6 ± 0.76	.77 ± .030
-10 PTFE Hose	08E-xxx / 08ER-xxx	17.9 ± 0.10	.705 ± .005	FT1380-200-M180	21.6 ± 0.76	.85 ± .030
-12 PTFE Hose	10E-xxx / 10ER-xxx	20.75 ± 0.10	.816 ± .005	FT1380-200-M180	18.5 ± 0.76	.73 ± .030
-16 PTFE Hose	14E-xxx / 14ER-xxx	28.05 ± 0.10	1.105 ± .005	FT1380-200-M280	26.4 ± 0.76	1.04 ± .030



ET1000 Crimpers

			Spacer Ring		
E-Series Fitting	Collet Segment	Spacer Ring	Flat Side UP/DN	Spacer Ring Color	Adapter Die Ring
03E-xxx / 03ER-xxx	ET1000DC-M065S	T-400-10	UP	Black	ET1000AR-001
05E-xxx / 05ER-xxx	T-400-120C	T-400-10	DN	Black	ET1000AR-001
07E-xxx / 07ER-xxx	T-400-2C	T-400-62	UP	Yellow	ET1000AR-001
08E-xxx / 08ER-xxx	T-400-40C	T-400-10	UP	Black	ET1000AR-001
10E-xxx / 10ER-xxx	T-400-4C	ET1000SR-M215A	UP	Magenta	ET1000AR-001
14E-xxx / 14ER-xxx	T-400-5C	T-400-38	UP	Red	ET1000AR-001

T-400-1 or T-400-17 or T-407-1 or T-460 or T-462 or T-465 Crimpers

		Spacer King	
Collet Segment	Spacer Ring	Flat Side UP/DN	Spacer Ring Color
ET1000DC-M065S	T-400-10	UP	Black
T-400-120C	T-400-10	DN	Black
T-400-2C	T-400-62	UP	Yellow
T-400-40C	T-400-10	UP	Black
T-400-4C	ET1000SR-M215A	UP	Magenta
T-400-5C	T-400-38	UP	Red
	ET1000DC-M065S T-400-120C T-400-2C T-400-40C T-400-4C	ET1000DC-M065S T-400-10 T-400-120C T-400-10 T-400-2C T-400-62 T-400-40C T-400-10 T-400-4C ET1000SR-M215A	Collet Segment Spacer Ring Flat Side UP/DN ET1000DC-M065S T-400-10 UP T-400-120C T-400-10 DN T-400-2C T-400-62 UP T-400-40C T-400-10 UP T-400-4C ET1000SR-M215A UP

FT1380 or ET1280 Crimpers

E-Series Fitting	Crimp Die Cage
03E-xxx / 03ER-xxx	FT1380-275-M090
05E-xxx / 05ER-xxx	FT1380-275-M120
07E-xxx / 07ER-xxx	FT1380-200-M150
08E-xxx / 08ER-xxx	FT1380-200-M180
10E-xxx / 10ER-xxx	FT1380-200-M180
14E-xxx / 14ER-xxx	FT1380-200-M280

ET4020 Crimpers

E-Series Fitting	Crimp Die Cage
03E-xxx / 03ER-xxx	FT1380-275-M090
05E-xxx / 05ER-xxx	FT1380-275-M120
07E-xxx / 07ER-xxx	FT1380-200-M150
08E-xxx / 08ER-xxx	FT1380-200-M180
10E-xxx / 10ER-xxx	FT1380-200-M180
14E-xxx / 14ER-xxx	FT1380-200-M280

ET4040 Crimpers

E-Series Fitting	Crimp Die Cage
3E-xxx / 03ER-xxx	FT1307-200-M090
05E-xxx / 05ER-xxx	FT1307-200-M120
07E-xxx / 07ER-xxx	FT1307-200-M150
08E-xxx / 08ER-xxx	FT1307-200-M180
10E-xxx / 10ER-xxx	FT1307-200-M180
14E-xxx / 14ER-xxx	FT1307-200-M280

T-440-1EF Conv-O-Crimp Press Only



Conv-O-Crimp tooling equipment allows you to make custom factory quality hose assemblies quickly, conveniently and economically. The T-440-1EF press offers the crimping capabilities of 1/2" through 2" I.D. convoluted PTFE hose.

T-440-1EFKIT:

Kit includes a press, hydraulic pump, hose assembly, and foot switch kit



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

The use or intermixing of fittings and hose not specifically engineered and designed for use with the Everflex equipment may result in the production of an unsafe or unreliable hose assembly. The Everflex limited warranty is contingent upon the fact that only Everflex end fittings and Everflex hose be used on Everflex assembly equipment.

T-890021 Conversion Kit for Weatherhead T-410-1 Press

Kit includes new pusher halves and crimp locator

Model #	Description
T-440-1EF	Press
T-410-22	Hose Assembly
T-441	Electric Pump (two stage)
T-8000	Crimp Collet Kit (all 6 sizes)
T-8008	Collet - 1/2" I.D.
T-8012	Collet - 3/4" I.D.
T-8016	Collet - 1" I.D.
T-8020	Collet - 1 1/4" I.D.
T-8024	Collet - 1 1/2" I.D.
T-8032	Collet - 2" I.D.
T-890024	Tube Expander Kit (all six sizes)
T-890024-8	Tube Expander for -8 hose
T-890024-12	Tube Expander for -12 hose
T-890024-16	Tube Expander for -16 hose
T-890024-20	Tube Expander for -20 hose
T-890024-24	Tube Expander for -24 hose
T-890024-32	Tube Expander for -32 hose
T-890025	Flange Support Kit
T-890026	Foot Switch Kit
T-410-BB	Convert Switch for T-441 Pump

T-441 Electric Pump



Dimensions 7 1/2" high, 10" wide, 22" long

Weight 75 lbs.
Pressure 5000 psi

Reservoir Capacity 6 quarts Outlet Port

Size 3/4-16 straight thread o-ring

Motor 1 HP, 3450RPM, 115.220 volts, 60 cycle, single phase.

Hydraulic Oil Automatic Transmission Fluid (ATF)
Flow 2.5 GPM @ 750 psi 0.5 GPM @ 3500 psi

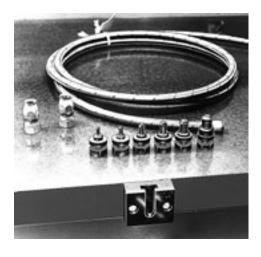
CAUTION: The T-441 electric pump has the relief valve set @ 4000 to 4200 psi.

Damage to the press will result and the warranty may be voided if higher pressures are used.

Field Attachable Fittings

Assembly Equipment

FT1081 Everflex Complete Tool Kit



Hose Specifications

Smooth Bore Everflex Hose, -03, -04, -05, -06, -08, -10 and -12 hose.

Features

- Seats Everflex tube against sleeve
- Inexpensive
- Easy to use

Ordering Instructions

FT1081 Complete tool kit.

Includes:

FT1081-3-1 mandrel holder FT1081-3-2-3 mandrel -3 hose FT1081-3-2-4 mandrel -4 hose FT1081-3-3-5 mandrel -5 hose FT1081-3-4-6 mandrel -6 hose FT1081-3-5-8 mandrel -8 hose FT1081-3-6-10 mandrel -10 hose FT1081-3-7-12 mandrel -12 hose

FT1038A Everflex Hose Tool



Hose Specifications

Smooth Bore Everflex Hose, -03, -04, -05, -06, -08, -10, -12

Features

- Used for sizing the ID of hoses made from Teflon resin
- Small
- Hand held tool

Chemical Resistance Chart

Table of Contents

Chemical Resistence Chart



KEY:

- B- Brass
- CS- Carbon Steel
- SS- Stainless Steel
- 1- Excellent
- 2- Good
- 3- Not Recommended
- 0- No Information -Test Before Using

Partial List of Chemicals

This chart has been prepared as a guide only and is NOT a guarantee.

The number of variables present in any particular chemical environment makes firm ratings impossible. Testing under actual service conditions is advisable in all cases to establish suitability of hose for a given purpose.

End fitting material compatibility ratings are based on a fluid temperature of 70°

and higher temperatures may accelerate adverse affects.

Where unusual conditions exist, or where questions arise, please consult Eaton Technical Support for assistance.

Media		End Fitting Material			
	aton Everflex eflon Hose	Brass	cs	303/304 S.S.	31655
Acetaldehyde	1	1	1	1	1
Acetic Acid 10%	1	3	3	2	2
Acetic Acid 30%	1	3	3	2	2
Acetic Acid Glacial	1	2	0	2	2
Acetic Anhydride	1	3	3	2	2
Acetone	1	1	1	1	1
Acetylene	1	2	0	1	1
Acrylonitrile	1	0	1	1	1
Acetyl Chloride	0	0	0	0	0
Alcohols	1	0	3	1	1
Allyl Chloride	0	0	0	0	0
Alum, Ammonium					
Or Potassium	1	3	3	2	2
Aluminum Acetate	1	3	0	1	1
Aluminum Bromide	1	3	3	2	2
Aluminum Chloride	1	3	3	2	2
Aluminum Fluoride	1	3	3	2	2
Aluminum Hydroxide	1	1	0	1	1
Aluminum Nitrite	1	0	3	1	1
Aluminum Oxychloride	9 0	0	0	0	0
Aluminum Salts	1	0	0	1	2
Aluminium Sulfate	1	3	3	3	2
Ammonia, Anhydrous	1	0	1	1	1
Ammonia, Aqueous	1	3	0	1	1
Ammonium Acetate	0	0	0	0	0
Ammonium Carbonate	0	0	1	1	1
Ammonium Chloride	1	3	0	2	2
Ammonium Fluoride	0	0	0	0	0
Ammonium Hydroxide	1	3	2	1	1
Ammonium Metaphos	phate 1	0	1	1	1
Ammonium Nitrate	1	3	1	1	1
Ammonium Nitrite	0	0	0	1	1
Ammonium Persulfate	0	0	0	1	1
Ammonium Phosphate	1	0	3	2	1
Ammonium Sulfate	1	3	1	1	1
Ammonium Thiocyana	te 1	0	1	1	1
Amyl Acetate	1	1	3	1	1
Amyl Alcohol	1	1	1	1	1
Amyl Chloride	1	0	0	1	1

Media	End Fitting Material				
	Everflex n Hose	Brass	cs	303/304 S.S.	316SS
Amyl Chloronaphthalene	1	0	0	1	1
Amyl Naphthalene	1	0	0	1	1
Aniline	1	3	2	1	1
Aniline Dyes	1	0	3	1	1
Aniline Hydroxide	1	3	0	3	3
Animal Fats	1	0	1	1	1
Antimony Chloride	0	0	0	0	0
Antimony Trochloride	0	0	0	0	0
Aqua Regia	1	0	0	3	3
Arsenic Acid	1	0	2	0	1
Askarel	0	1	1	1	1
Asphalt	1	2	1	1	1
Barium Carbonate	1	1	2	1	1
Barium Chloride	1	2	3	1	1
Barium Hydroxide	1	0	2	1	1
Barium Sulfate	1	2	1	1	1
Barium Sulfide	1	3	3	1	1
Beer	1	1	2	1	1
Beet Sugar Liquids	1	0	1	1	1
Benzene	1	1	1	1	1
Benzenesulfonic Acid	0	0	3	0	2
Benzalsdehyde	1	0	1	0	0
Benzine	1	1	1	1	1
Benzyl Alcohol	1	0	1	1	1
Benzonic Acid	0	0	0	0	0
Benzoyl Chloride	0	0	0	0	0
Benzyl Benzoate	1	0	1	1	1
Benzyl Chloride	1	0	1	0	0
Bismuth Carbonate	1	0	1	1	1
Black Sulphate Liquor	1	0	1	1	1
Blast Furnace Gas	1	1	1	1	1
Borax	1	1	2	2	1
Bordeaux Mixture	1	0	0	1	1
Boric Acid	1	3	3	2	1
Brine	1	2	2	1	1
Bromine Gas	1	3	3	3	3
Bromine Liquid	1	3	3	3	3
Bromine Water	1	3	3	3	3
Bunker Oil	1	1	1	1	1

	End Fitt	ing Ma	terial		
	on Everflex on Hose	Brass	cs	303/304 S.S.	316SS
Butadiene	1	1	0	1	1
Butane	1	1	1	1	1
Butter Oil	1	1	1	1	1
Butyric Acid	1	2	3	1	1
Butyl Acetate	1	1	2	1	1
Butyl Alcohol	1	1	1	1	1
Butyl Amine	0	1	1	1	1
Butyl Carbitol	1	1	1	1	1
Butyl Chloride	0	0	0	0	0
Butyl Phenol	0	0	0	0	0
Butyl Stearate	1	1	1	1	1
Butyl Mercaptan	1	0	0	1	1
Butyraldehyde	1	1	0	0	0
Cadmium Cyanide	0	0	0	0	0
Calcium Acetate	1	1	1	1	1
Calcium Bisulfate	1	3	0	2	1
Calcium Carbonate	1	1	1	1	1
Calcium Chlorate	1	0	0	2	1
Calcium Chloride	1	2	3	2	1
Calcium Hydroxide	1	2	3	3	1
Calcium Hypochlorite	1	3	0	3	2
Calcium Nitrate	1	1	1	1	1
Calcium Silicate	1	1	1	1	1
Calcium Sulfate	1	1	1	1	1
Calcium Sulfide	1	0	1	1	1
Calcium Phosphate	0	0	0	0	0
Cane Sugar Liquors	1	2	1	1	1
Capryllic Acid	0	0	0	0	0
Carbonic Acid	1	3	3	1	1
Carbon Dioxide	1	1	1	1	1
Carbon Disulfide	0	2	2	1	1
Carbonic Acid	1	3	3	1	1
Carbon Monoxide	1	1	1	1	1
Carbon Tetrachloride	1	2	3	2	2
Castor Oil	1	 1	1	<u>-</u> 1	1
Caustic Soda	1	3	2	1	1
Cellosolve, Acetate	1	0	1	1	1
Cellosolve, Butyl	1	0	1	1	1
Cellulube	1	1	1	1	1
Cetyl Alcohol	0	0	0	0	0
Chloroacetic Acid	1	2	3	3	3
Chloral Hydrate	0	0	0	0	0
Chlorine, Gaseous, Dry	1	2	2	3	3
Chlorine, Gaseous, Wet		3	3	3	3
Chlorine, Triflouride	0	0	3	0	0
	1	2	3	3	3
nioroacetic Acid		_	J	J	J
Chloroacetic, Acid Chlorobenzine	1	1	1	1	1

Media	End Fitting Material				
	on Everflex Ion Hose	Brass	cs	303/304 S.S.	316SS
Chlorobromomethane	1	1	1	1	1
Chloroform	1	1	1	 1	1
O-Chloronaphthalene	1	1	1	1	1
Chlorosulfonic Acid	1	0	3	0	1
Chlorotoluene	1	1	1	1	1
Chromium Trioxide	0	0	0	0	0
Chromic Acid	1	3	3	3	2
Citric Acid	1	3	3	3	1
Cod Liver Oil	1	1	1	1	1
Code Oven Gas	1	0	1	1	1
Copper Chloride	1	3	3	3	1
Copper Cyanide	1	3	0	1	1
Copper Fluoride	0	0	0	0	0
Copper Nitrate	0	0	0	0	0
Copper Sulfate	1	3	3	1	1
Corn Oil	1	1	1	1	1
Corn Syrup	1	0	1	1	1
Cottonseed Oil	1	1	1	1	1
Creosote	1	3	2	1	1
Cresol	1	0	2	1	1
Cresylic Acid	0	0	0	0	0
Crude Wax	1	1	1	1	1
Cutting Oil	1	1	1	1	1
Cyclohexane	1	1	1	1	1
Cyclohexanone	1	0	0	1	1
Cymene	1	1	0	0	0
Decalin	1	1	0	0	0
Denatured Alcohol	1	1	1	1	1
Diacetone	1	1	1	1	1
Diacetone Alcohol	1	1	1	1	1
Dibenzyl Ether	1	1	1	1	1
Dibutyl Ether	1	1	1	1	1
Dibutyl Phthalate	1	1	1	1	1
Dibutyl Sebacate	1	1	0	0	0
Dichlorethylene	0	0	0	0	0
Dichlorobenzene	1	1	0	1	1
Diesel Oil	1	1	1	1	1
Diethylamine	1	3	0	0	1
Diethyl Ether	1	1	1	1	1
Diethylene Glycol	1	1	1	1	1
Diethyl Phthalate	1	1	0	1	1
Diethyl Sebacate	1	1	0	1	1
Di-Isobutylene	0	1	0	1	1
Di-Isopropyl Ketone	1	1	0	1	1
Dimethyl Analine	1	1	0	0	0
Dimethyl Formamide	0	0	1	1	1
Dimetyl Phthalate	1	1	0	1	0
Dioctyl Phthalate	1	1	1	1	1

Chemical Resistance Chart

Eaton Everflex Teflon Hoses: Wetted Surfaces Only

KEY:

B- Brass

CS- Carbon Steel

SS- Stainless Steel

- 1- Excellent
- 2- Good
- 3- Not Recommended
- 0- No Information -

End Fitting Material
Test Before Using

Media	End Fitting Material				
	aton Everflex eflon Hose	Brass	cs	303/304 S.S.	316SS
Dioxane	1	1	1	1	1
Dipentene	1	1	1	1	1
Ethanolamine	1	1	1	1	1
Ethers	1	1	1	1	1
Ethyl Acetate	1	1	1	1	1
Ethyl Acetoacetate	1	1	1	1	1
Ethyl Acrylate	0	0	1	1	1
Ethyl Alcohol	1	2	1	1	1
Ethyl Benzene	1	1	1	1	1
Ethyl Bromide	0	0	0	0	0
Ethyl Cellulose	1	1	1	1	1
Ethyl Chloride	1	2	2	1	1
Ethyl Ether	1	1	2	1	1
Ethyl Lactate	0	0	0	0	0
Ethyl Mercaptan	1	0	2	0	0
Ethyl Pentochlorobenz	*	1	2	1	1
Ethyl Silicate	1	1	1	 1	1
Ethylene Chloride	1	2	2		1
Ethylene Chlorohydrin	-	0	0	0	0
Ethylene Diamine	1	1	0	0	0
Ethylene Dichloride	i 1	1	3	3	3
Ethylene Glycol	1	1	2	1	1
Ethylene Oxide	0	0	0	0	0
Fatty Acids	1	0	0	1	1
Ferric Chloride	1	3	3	3	3
Ferric Nitrate	1	0	3	1	1
Ferric Sulfate	1	3	3	1	1
Ferrous Chloride	1	2	3	1	2
Ferrous Nitrate	1	0	0	1	1
Ferrous Sulfate	1	2	3	1	1
Fluorine	0	0	0	0	0
Floroboric Acid	1	0	0	1	1
Formaldehyde	1	1	0	1	1
Formic Acid	1	2	3	2	1
Freon 12	2	0	3	1	1
Freon 114	2	0	3	<u>'</u> 1	1
Fuel Oil	1	1	2	2	2
Fuer on Fumaric Acid	0	0	0	1	<u>_</u> 1
Furnanc Acid Furan Furfuran	1	1	1	1	<u>'</u> 1
	<u> </u> 1	<u> </u> 			1
Furfural			2	1	
Gallic Acid	1	0	3	1	1
Gasoline	1	1	2	1	1
Glauber's Salt	0	0	1	1	1
Glucose	1	1	1	1	1
Glue	1	3	2	1	1
Glycerin	1	1	2	1	1
Glycerol	1	2	1	1	1
Glycols	1	1	1	1	1
Green Sulphate Liquo	r 1	0	1	1	1

Media		End Fitting Material			
Eaton Ev Teflon H		Brass	cs	303/304 S.S.	316SS
Heptane	1	1	1	1	1
n-Hexaldehyde	1	1	1	<u>.</u> 1	1
Hexane	1	1	1	<u>.</u> 1	1
Hexene	1	1	1	<u>.</u> 1	1
Hexyl Alcohol	1	2	1	<u>.</u> 1	1
Hydraulic Oil, Petroleum	1	1	<u>·</u> 1	 1	1
Hydrobromic Acid 10%	1	0	3	3	3
Hydrobromic Acid 30%	1	0	3	3	3
Hydrochloric Acid 10%	1	3	3	3	3
Hydrochloric Acid 50%	1	3	3	3	3
Hydrochloric Acid Concentrate	1	3	3	3	3
Hydrocyanic Acid	1	0	3	0	1
Hydrofluoric Acid		-	-		
Concentrated	1	3	3	3	3
Hydrofluoric Acid 40%	1	3	3	3	3
Hydrofluoric Acid 60%	1	3	3	3	3
Hydrofluosolicic Acid	1	3	3	3	3
Hydrogen Bromide	0	0	0	0	0
Hydrogen Gaseous	1	1	1	1	1
Hydrogen Peroxide 70%	1	3	3	2	1
Hydrogen Sulfide Gaseous	1	3	3	2	1
Hydroquinone	0	0	0	1	1
Hydroxylamine Sulfate	0	0	0	0	0
lodine	0	0	0	0	0
Isobutyl Alcohol	1	2	1	1	1
Iso Octane	1	1	1	1	1
Isopropyl Acetate	1	1	1	1	1
Isopropyl Alcohol	1	1	1	1	1
Isopropyl Ether	1	1	1	1	1
Kerosene	1	1	1	1	1
Ketones	0	0	0	1	1
Lacquers	1	1	3	3	1
Lacquers Solvents	1	1	3	2	1
Lactic Acid	1	2	3	2	1
Lard	1	3	1	1	1
Lead Acetate	1	1	2	1	1
Lead Nitrate	1	1	2	1	1
Lyme Bleach	0	0	3	2	1
Linoleic Acid	1	0	0	0	0
Linseed Oil	1	2	2	1	1
Lubricating Oils, Petroleum	1	1	1	1	1
Magnesium Chloride	1	2	3	2	1
Magnesium Hydroxide	1	0	1	1	1
Magnesium Nitrate	0	0	0	0	0
Magnesium Sulfate	1	1	2	1	1
Malic Acid	1	0	2	2	1
Mercuric Chloride	1	3	3	1	1
Mercury	1	3	1	1	1

Chemical Resistance Chart

Eaton Everflex Teflon Hoses: Wetted Surfaces Only

Media		End Fitting Material			
	n Everflex n Hose	Brass	cs	303/304 S.S.	316SS
Mesityl Oxide	1	1	1	1	1
Methanol	1	1	0	1	1
Methyl Acetate	1	1	1	1	1
Methyl Acrylate	0	1	1	1	1
Methyl Alcohol	1	2	1	1	1
Methyl Bromide	1	1	1	1	1
Methyl Butyl Katone	0	1	1	1	1
Methyl Chloride	1	1	1	1	1
Methylene Chloride	1	1	1	1	1
Methylethyl Ketone (MEK	() 1	1	1	1	1
Methyl Formate	1	1	1	1	1
Methyl Isobutyl Ketone	1	1	1	1	1
Methyl Methacrylate	1	0	1	1	1
Methyl Salicylate	1	1	1	<u>'</u> 1	1
Methyl Sulphate	0	0	0	0	0
Methyl Trichlorosilane	0	0	0	0	0
Milk	1	3	3	1	1
Mineral Oil	1	<u>3</u> 1	<u>3</u> 1	1	1
Molasses	0	0	0	0	0
Monochlorobenzene	1	1	1	1	1
Monoethanolamine	0	1	1	1	1
Naptha	1	1	2	1	1
•	1	0	0	1	1
Napthalene				2	1
Naphthenic Acid	1	0	0		ı
Natural Gas I Nickel Acetate	1 1	2 1	1 1	1 1	1
Nickel Chloride	1	3	3	2	2
Nickel Nitrate	0	0	0	0	0
Nickel Sulfate	1	3	0	2	1
Niter Cake	0	0	3	2	1
Nitric Acid 5%	1	3	3	2	2
Nitric Acid 10%	1	3	3	2	2
Nitric Acid 10%	1	ა ვ	ა ვ	2	2
Nitric Acid 30%	1	3	3	2	2
Nitric Acid, Red Fuming	1	3	3	2	2
Nitric Acia, Rea Fuming Nitrobenzene	1		<u>3</u> 1	1	1
	1 1	1			
Nitroethane		1	0	1	1
Nitrogen, Gaseous	1	1	1	1	1
Nitrogen Tetroxide	0	0	0	0	2
Nitrous Acid	0	0	0	0	0
Nitrous Oxide	0	0	0	0	0
n-Octane	0	1	1	1	1
Octyl Alcohol	1	2	1	1	1
Oil, SAE	1	1	1	1	1
Oleic Acid	1	2	2	2	1
Olive Oil	1	2	2	2	1
Oxalic Acid	1	3	3	2	1
Oxygen Gaseous	1	1	1	1	1
Ozone	1	1	1	1	1

Media		End Fit			
	n Everflex n Hose	Brass	cs	303/304 S.S.	316SS
Paint	1	1	0	1	1
Palmitic Acid	1	3	1	2	1
Peanut Oil	1	1	1		1
Perchloric Acid	1	0	0	2	1
Perchloroethylene	1	1	1		1
Petroleum	1	1	1	 1	1
Phenol	1	3	3	 1	1
Phorone	1	1	1	 1	1
Phosgene	0	0	0	0	0
Phosphoric Acid 20%	1	3	3	0	2
Phosphoric Acid 100%	1	3	3	0	2
Picric Acid	1	3	3	1	1
Pinene	1	1	1	'	1
Pine Oil	1	0	1	<u>'</u> 1	1
	0	0	0	0	0
Plating Solutions Brass Cadmium					
	0	0	0	0	0
Chrome	1	0	0	3	3
Potassium Acetate	1	0	0	1	1
Potassium Chloride	1	3	2	2	1
Potassium Cyanide	1	3	2	1	1
Potassium Dichromate	1	0	0	1	1
Potassium Hydroxide 30%		3	3	1	1
Potassium Hydroxide 100		2	3	1	1
Potassium Nitrate	1	2	3	1	1
Potassium Sulfate	1	2	2	1	1
Propane	1	1	1	1	1
Propyl Acetate	0	1	1	1	1
Propyl Alcohol	1	2	1	1	1
Pyridine 50%	1	1	0	1	1
Red Oil	1	2	2	2	1
Salicylic Acid	0	0	0	1	1
Salt Water	1	3	2	1	1
Sewage	1	1	3	1	1
Silicone Greases	0	1	1	1	1
Silicone Oils	0	1	1	1	1
Silver Cyanide	0	0	0	0	0
Silver Nitrate	1	2	2	1	1
Skydrol 500 & 7000	1	0	1	1	1
Soap Solutions	1	1	1	1	1
Soda Ash	0	2	1	1	1
Sodium Acetate	1	1	1	1	1
Sodium Benzoate	1	2	2	1	1
Sodium Bicarbonate	1	2	2	1	1
Sodium Bisulfate	1	0	1	<u>.</u> 1	1
Sodium Borate	1	0	1	<u>.</u> 1	1
Sodium Chloride	1	3	2	2	1
Sodium Cyanide	1	3	2	1	1
Sodium Chlorate	0	0	0	0	0
	1	3	2	1	1
Sodium Hydroxide 30%	ı	ა		l l	l l

KEY:

B- Brass

CS- Carbon Steel

SS- Stainless Steel

- 1- Excellent
- 2- Good
- 3- Not Recommended
- Test Before Using

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0-	No	Information -	

Media		End Fit			
	n Everflex n Hose	Brass	cs	303/304 S.S.	316SS
Sodium Hydroxide 40%	1	3	2	1	1
Sodium Hydroxide 100%	1	3	2	2	1
Sodium Chlorite	0	0	0	0	0
Sodium Metaphosphate	1	3	3	1	1
Sodium Nitrate	1	2	1	1	1
Sodium Perborate	1	3	3	1	1
Sodium Peroxide	1	3	3	1	1
Sodium Phosphate	1	3	0	1	1
Sodium Thiosulfate	1	3	3	1	1
Soybean Oil	1	0	1	1	1
Stannic Chloride	1	3	3	0	0
Starch	0	0	0	0	0
Steam	1	2	1	1	1
Stearic Acid	1	3	3	2	1
Stoddard Solvent	1	1	2	1	1
Styrene	1			0	2
Sucrose Solution	1	0	1	1	1
Sulfur 200°F	1	3	2	2	<u>·</u> 1
Sulfur Chloride	1	3	3	3	2
Sulfur Dioxide	1	1	2	1	1
Sulfur Dioxide Liquid	1	0	0	0	0
Sulfur Dioxide Wet Gas	1	0	0	0	0
Sulfur Monochloride	0	0	0	0	0
Sulfur Trioxide	1	0	2	2	2
Sulfur Trioxide Liquid	0	0	0	0	0
Sulfur Trioxide Wet Gas	0	0	0	0	0
Sulfuric Acid 10%	1	3	3	3	2
96%	1	3	3	3	2
98%	1	3	2	3	2
100%	1	0	0	0	0
Fuming	1	3	2	0	1
Sulfurous Acid 10%	1	3	3	2	1
Sulfurous Acid 75%	1	3	3	3	2
Tallow	0	0	0	0	0
Tannic Acid 10%	1	3	2	1	1
Tar, Bituminous	1	2	1	1	1
Tartaric Acid	<u></u> 1			2	2
Tetrachloroethyene	0	0	0		0
	1	0	0	0	
Terpineol Titanium Tetrachloride	0	0	0	0	0
		3	1	2	2
Toluene	1	1	1	<u> </u>	1
Toluene Disocyanate	0	0	0	0	0
Transformer Oil	1	1	1	1	1
Transmission Fluid Type <i>F</i>		1	1	1	1
Tributoxyethyl Phosphate		0	1	0	0
Tributyl Phosphate	1	0	1	0	0
Trichloroacetic Acid 10%	0	0	0	0	0
Trichloroacetic Acid 100%	6 0	0	0	0	0

Chemical Resistance Chart

Eaton Everflex Teflon Hoses:

Wetted Surfaces Only

Media	End Fitting Material				
	Eaton Everflex Teflon Hose	Brass	cs	303/304 S.S.	316SS
Trichlorethylene	1	1	3	0	1
Trichloroethylene	1	0	3	0	1
Trichlorophenol	0	0	0	0	0
Tricresyl Phosphate	1	0	1	0	2
Tung Oil	1	1	1	1	1
Turpentine	1	2	0	1	1
Urea Solution 50%	1	0	1	1	1
Urine	1	0	0	0	0
Varnish	0	2	2	1	1
Vegetable Oils	1	0	1	1	1
Versilube	1	1	1	1	1
Vinegar	1	3	3	2	1
Vinyl Acetate	0	0	0	0	0
Vinyl Chloride	1	3	2	1	1
Water	1	1	2	1	1
Whiskey, Wines	1	3	3	2	1
Xylene	1	0	3	2	2
Zinc Acetate	1	1	1	1	1
Zinc Chloride	1	3	3	2	1
Zinc Sulfate	1	3	3	2	1

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