



*Chicago  
Fittings*

# X-Riser

## & Propane Products

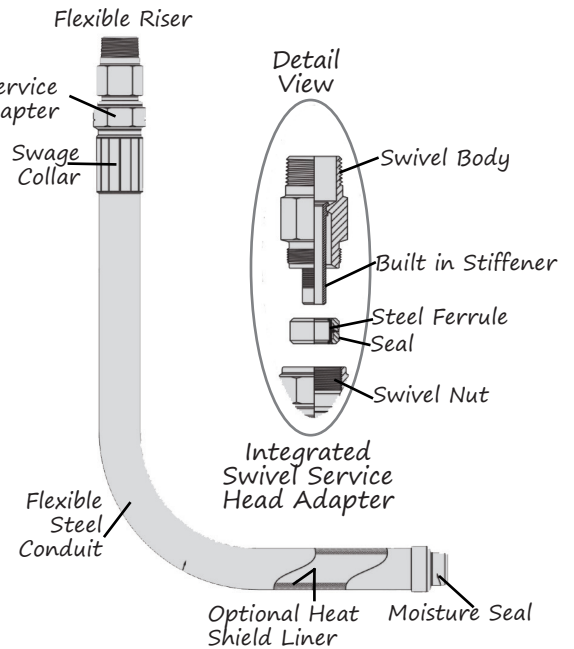


bergquistinc.com

| 800.537.7518

  
**Bergquist**

# A Series of Flexible Anodeless Risers for the Propane Gas Market



## Features & Benefits

- **NO UNDERGROUND JOINTS** - One solid service line from point-to-point with above ground terminations.
- **NO CHAMFERING** - A simple clean cut is all that is required.
- **BI-DIRECTIONAL SEAL** - assembly CAN'T be installed improperly where some competitors multiple internal components MUST have proper order and orientation to function properly.
- **NO TORQUE REQUIREMENTS** - All X-Risers incorporate the 'bottoming' or 'positive stop' design. Simply tighten the compression nut until it is metal-to-metal and you are done.
- **SIMPLE DESIGN** - can be installed with one flat jaw wrench extending the life of protective coatings commonly flawed or removed by pipe wrenches.
- **INTEGRAL BARBED STIFFENERS** - are permanent (not loose) for additional pull out resistance.
- **QUALITY** - Chicago Fittings products are CNC machined from solid bar stock (not castings) providing high quality product with the most precise threads and design flexibility.

  
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# X-Riser

## Flexible Anodeless Risers with Heat Shield/Liner for Propane Use

Part #	Outlet	Tube Size	Wall	SDR	Conduit Length (in.)
XR108-36	1/2" MPT	1/2"CTS	.090"	7	36
XR108-72	1/2" MPT	1/2"CTS	.090"	7	72
XR108-96	1/2" MPT	1/2"CTS	.090"	7	96
XR108-144	1/2" MPT	1/2"CTS	.090"	7	144
XR108SN-36	1/2" Female Swivel 45° Flare	1/2"CTS	.090"	7	36
XR108SN-72	1/2" Female Swivel 45° Flare	1/2"CTS	.090"	7	72
XR108SN-96	1/2" Female Swivel 45° Flare	1/2"CTS	.090"	7	96
XR1012-36	3/4" MPT	1/2"CTS	.090"	7	36
XR1012-48	3/4" MPT	1/2" CTS	.090"	7	48
XR1012-72	3/4" MPT	1/2"CTS	.090"	7	72
XR1012-96	3/4" MPT	1/2"CTS	.090"	7	96
XR1012-144	3/4" MPT	1/2"CTS	.090"	7	144
XR17C10SN-36	5/8" Female Swivel 45° Flare	3/4" IPS	.095"	11	36
XR17C10SN-72	5/8" Female Swivel 45° Flare	3/4" IPS	.095"	11	72
XR17C10SN-96	5/8" Female Swivel 45° Flare	3/4" IPS	.095"	11	96
XR17C12-36	3/4" MPT	3/4" IPS	.095"	11	36
XR17C12-72	3/4" MPT	3/4" IPS	.095"	11	72
XR17C12-96	3/4" MPT	3/4" IPS	.095"	11	96

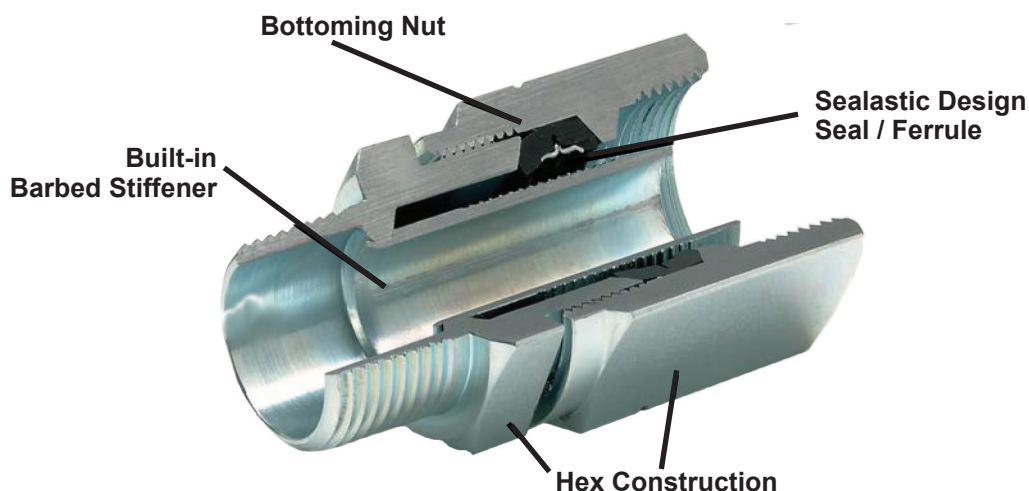
## A597 Series

### Replacement X-Riser Service Head Top Half Assemblies with Integral Stiffener - STEEL

Part #	Outlet	Tube Size	Wall	MPT
597-10-8ZDC	1/2" MPT	1/2" CTS	.090"	7
597-10-8-SW	1/2" F.Swivel 45° Flare	1/2" CTS	.090"	7
597-10-12NCZDC	3/4" MPT	1/2" CTS	.090"	7
A5971710SW	5/8" F.Swivel 45° Flare	3/4" IPS	.095"	11
A5971712ZDC	3/4" MPT	3/4" IPS	.095"	11



# Rugged Construction – Ensures Lasting Field Performance



## Features

- **Sealastic Design**
- **Bottoming Nut (Positive Stop)**
- **Bi-Directional Seal/Ferrule Assembly**
- **Solid Stock Construction**
- **Ease of Assembly**
- **Tube Preparation**

*Note: Sealastic products are manufactured under U.S. and foreign patents.*

*Note: Fittings may be reused only if new seal and ferrule is inserted.*

## Benefits

**Rugged Leak Resistant Design** utilizing a **molded rubber seal/ferrule assembly** and **integral stiffener**

**Self-Seating Design** eliminates the need for **torque measurement**

**One Piece Design** eliminates worries of **'Order & Orientation'** of multiple internal components

**CNC Mechined from solid bar stock** eliminates concerns associated with **malleable castings**

**Hex Construction** Allows for use of **flat jawed wrenches** and greatly reduces **damage to finishes** compared to that of **bite-style wrenches**

**A Clean, Burr-Free Cut** is all that's required (**No Chamfering Tools or Fusion Equipment**)

*Note: When pipe movement out of the coupling might occur as a result of forces other than that caused by internal line pressure of 125psi maximum, proper anchorage of the pipe must be provided.*



The information presented herein and other information from Chicago Fittings and its authorized distributors including but not limited to the description of the goods is for the sole purpose of identifying the goods for further investigation by the users having technical expertise and shall not be deemed to create an express warranty that the goods shall conform to any such description and any information provided shall not be deemed to be part of the basis of bargain of sale of such merchandise. Because every application of the goods is unique, Chicago Fittings makes no and DISCLAIMS ANY WARRANTY THAT THE GOODS ARE MERCHANTABLE OR SUITABLE FOR ANY PARTICULAR PURPOSE REQUIRED BY THE BUYER. It is important that you analyze all aspects of your application and review the information concerning the products or system in the current product literature. Due to the variety of operating conditions and applications for these goods or systems, the user, through its own analysis and testing is solely responsible for selecting the goods and assuring that all performance, safety and warning requirements of the application are met.

# Plastic Service – Fittings

## 597 Series



Steel Transition Fittings - Plastic to MPT				
Part #	Outlet	Tube Size	Wall	SDR
M597C1	1/2" MPT	1/2" CTS	0.090"	7
M597C2	3/4" MPT	1/2" CTS	0.090"	7
M597C32	3/4" MPT	3/4" IPS	0.095"	11
M597C53	1" MPT	1" IPS	0.119"	11
M597C74	1-1/4" MPT	1-1/4" IPS	0.166"	10
M597C96	2" MPT	2" IPS	0.216"	11

Note: for underground use, fittings must be protected with an approved tape/wrap as defined by local/regional code.  
See item # *XTRU* - 4" x 50', 12 mil pipe sealing wrap, black

## 750PP Series



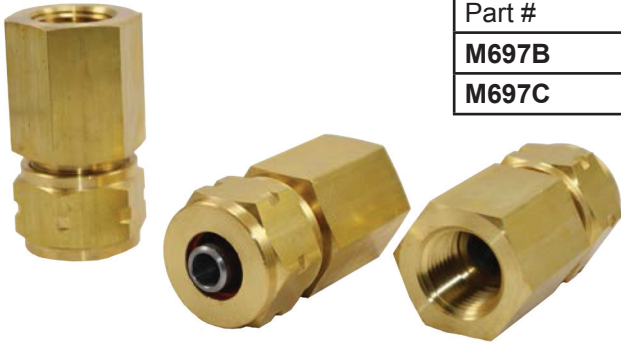
Steel Unions - Plastic to Plastic			
Part #	Tube Size	Wall	SDR
M75010	1/2" CTS	0.090"	7
M750C17	3/4" IPS	0.095"	11
M750C21	1" IPS	0.119"	11
M750C27	1-1/4" IPS	0.166"	10
M750C38	2" IPS	0.216"	11

Note: For underground use, fittings must be protected with an approved tape/wrap as defined by local/regional code.  
See item # *XTRU* - 4"x50', 12 mil pipe sealing wrap, black



# COPO Fittings

## 697 Series



Brass COPO Fittings - copper to plastic				
Part #	Outlet	Tube Size	Wall	SDR
<b>M697B</b>	3/8" FPT	1/2" CTS	0.090"	7
<b>M697C</b>	1/2" FPT	1/2" CTS	0.090"	7

## 545 Series



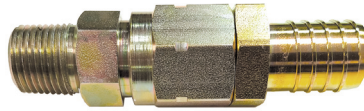
Brass COPO Fittings - copper to male flare				
Part #	Outlet	Tube Size	Wall	SDR
<b>M545C1</b>	3/8" 45° Male Flare	1/2" CTS	0.090"	7
<b>M545C2</b>	1/2" 45° Male Flare	1/2" CTS	0.090"	7



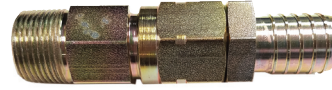
# Conduit Adapters

## X Series

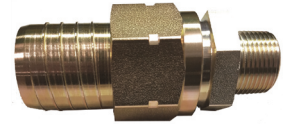
Steel Service Head Adapters - MNPT					
Part #	Outlet	Tube Size	Wall	SDR	Conduit MPT
<b>X2537SW</b>	1/2" MPT	1/2" CTS	0.090"	7	3/4"
<b>X2707SW</b>	3/4" MPT	1/2" CTS	0.090"	7	3/4"
<b>X2500-17-12</b>	3/4" MPT	3/4" IPS	0.095	11	1-1/4"



**X2537SW**



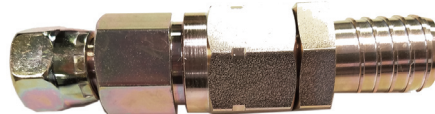
**X2707SW**



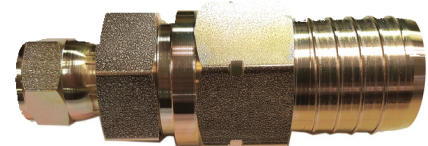
**X2500-17-12**

## X Swivels

Steel Service Head Adapters - Female Flare Swivel					
Part #	Outlet	Tube Size	Wall	SDR	Conduit MPT
<b>X2538SWN</b>	1/2" Female Flare Swivel	1/2" CTS	0.090"	7	3/4"
<b>X25001710SN</b>	5/8" Female Flare Swivel	3/4" IPS	0.095"	11	1-1/4"



**2538SWN**



**X25001710SN**

## MSS Series

Moisture Seals for Field Assembled Risers		
Part #	Tube Size	Conduit Size
<b>MS17-10</b>	1/2" CTS	3/4"
<b>MSS27-17</b>	3/4" IPS	1-1/4"

Seal Tight Conduit and Poly Liners for Field Assembled Risers	
Part #	Description
<b>Seal Tight 34</b>	3/4" gas riser seal tight for 1/2" CTS risers, 100' / box quantity
<b>PL-18</b>	1/2" CTS poly liner shield for use with Seal Tight 34, 9'
<b>Seal Tight 114</b>	1-1/4" gas riser seal tight for 3/4" IPS risers, 100' / box quantity
<b>PL-17-96</b>	3/4" IPS poly liner shield for use with Seal Tight 114, 8'

X-Riser Replacement Buna Main Seals	
Part #	Description
<b>CH10S</b>	X-Riser rubber seal for 1/2 CTS service heads and Copo fittings
<b>CH17</b>	Rubber seal for 3/4" IPS X-Riser & service head adapters

**Note:** Seals now red/orange in color  
[easier to find when dropped]





# Certifications

## SEALASTIC™ NATURAL GAS & PROPANE FITTINGS

### SECTION 1 - Integral Stiffener Design

Chicago Fittings Corporation Certifies that all Sealastic™ Gas Fittings manufactured with integral stiffeners, when installed per Chicago Fittings installation instructions, will meet all applicable requirements defined under 49CFR Part 192, D.O.T. 192.281, 192.283(b), 192.375, ASTM D2513 Category 1, ASTM F1973, ASTM F1948-12 Category 1, NFPA 58, NFPA 54 (ANSI Z223.1) and IFGC Section 403. IAPMO/UPC/IPC Listed.

### SECTION 2 - Loose Stiffener Design

Chicago Fittings Corporation Certifies that all Sealastic™ Gas Fittings manufactured with loose stiffeners, when installed per Chicago Fittings installation instructions, will meet all applicable requirements defined under 49CFR Part 192, D.O.T. 192.281, 192.283(b), 192.375, ASTM D2513 Category 1, ASTM F1973, ASTM F1948-12 Category 1, NFPA 58, NFPA 54 (ANSI Z223.1) and IFGC Section 403. IAPMO/UPC/IPC Listed. The loose stiffeners must be manufactured or approved by Chicago Fittings to adhere to these requirements. Should a stiffener not be manufactured or approved by Chicago Fittings, it will be the responsibility of the operating utility or end user to validate that they adhere to the above defined standards.

### SECTION 3 - Material Definitions

3.1 Bodies	3.1.1	Tubing AISI C1013
	3.1.2	Bar AISI C12L14, C1213, C1215
	3.1.3	Bar CDA836 85-5-5-5 Bronze
	3.1.4	Bar CDA360 Free Machining Brass
3.2 Nuts	3.2.1	Tubig AISI C1013
	3.2.2	Bar AISI C12L14, C1213, C1215
	3.2.3	Bar CDA836 85-5-5-5 Bronze
	3.2.4	Bar CDA360 Free Machining Brass
3.3 Seals	3.3.1	Seals shall be manufactured from a Buna-N compound material that will resist deterioration from age or air under normal storage conditions. The seal will resist deterioration from impurities normally found in natural gas or LP gas including odorants, liquid hydrocarbons, carbon dioxide and water. The compound shall meet the following specifications:
		Color: Black/Red      Durometer: 75+/-5 Elongation: 150%      Tensile Strength: 1,500 psi min.
3.4 Ferrules	3.4.1	Cold rolled strip C1050
3.5 Insulators	3.5.1	Zytel 105
3.6 Conduit	3.6.1	Core Materials: Hot dipped galvanized steel
	3.6.2	Jacket Wall: Liquid tight, sunlight resistant
	3.6.3	Crush Resistance: 1,200 psi min. in accordance with UL 360
3.7 Casing	3.7.1	Pipe/Tubing ASTM A53, ASTM A513
3.8 Moisture Seals	3.8.1	Hot Dipped Vinyl

