

*Streamline*<sup>®</sup>

CARBON STEEL  
PRESS FITTINGS



**CS**  
CARBON  
STEEL

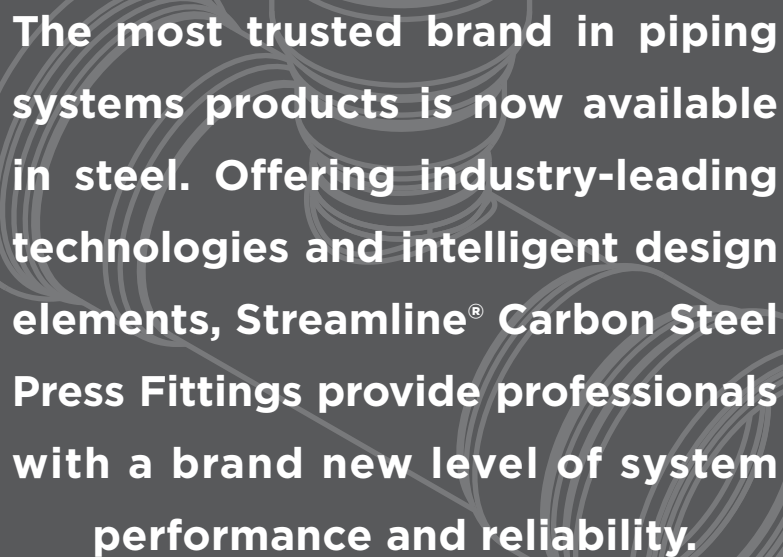
**PR**  
PRESS

**M**  
MECHANICAL

**G**  
GAS

 **MUELLER  
STREAMLINE CO.**

# *Streamline*<sup>®</sup>



**The most trusted brand in piping systems products is now available in steel. Offering industry-leading technologies and intelligent design elements, Streamline<sup>®</sup> Carbon Steel Press Fittings provide professionals with a brand new level of system performance and reliability.**

## **Quick Facts**

- Streamline<sup>®</sup> STL fitting line for Mechanical applications
- Streamline<sup>®</sup> STL-G fitting line for Gas applications
- Available in diameters from 1/2" to 2"
- Broad offering of 300+ fittings available
- Proprietary seal design provides dual sealing zones for unprecedented reliability



## GAS (STL-G)

Streamline® STL-G Carbon Steel Press Fittings are designed for use in gas and fuel/oil piping systems utilizing Schedule 10 to Schedule 40 carbon steel pipe.

### Carbon Steel Fitting Body with:

- Corrosion-resistant zinc-nickel coating
- HNBR engineered sealing element
- 420 stainless steel grip ring
- CuZn15 brass separator ring

### Certifications:

- ANSI LC 4a/CSA 6.32a

### Complies With:

- ASME B31: Code for Pressure Piping
- (UMC) Uniform Mechanical Code
- (UPC) Uniform Plumbing Code
- (IMC) International Mechanical Code
- (IPC) International Plumbing Code
- (IFGC) International Fuel Gas Code
- NFPA 54 and 58

### Operating Parameters:

- Operating Pressure:
  - 125 PSI Max for fuel gas applications
  - 200 PSI Max for other approved applications
- Test Pressure: 600 PSI Max
- Temperature Range: -40°F to 180°F

### Approved Systems:

- Natural Gas (up to 125 PSI)
- Propane (up to 125 PSI)
- Mineral Oil (up to 200 PSI)
- Compressed Air (up to 200 PSI)
- Nitrogen (up to 200 PSI)
- Heating Fuel Oil (up to 125psi)

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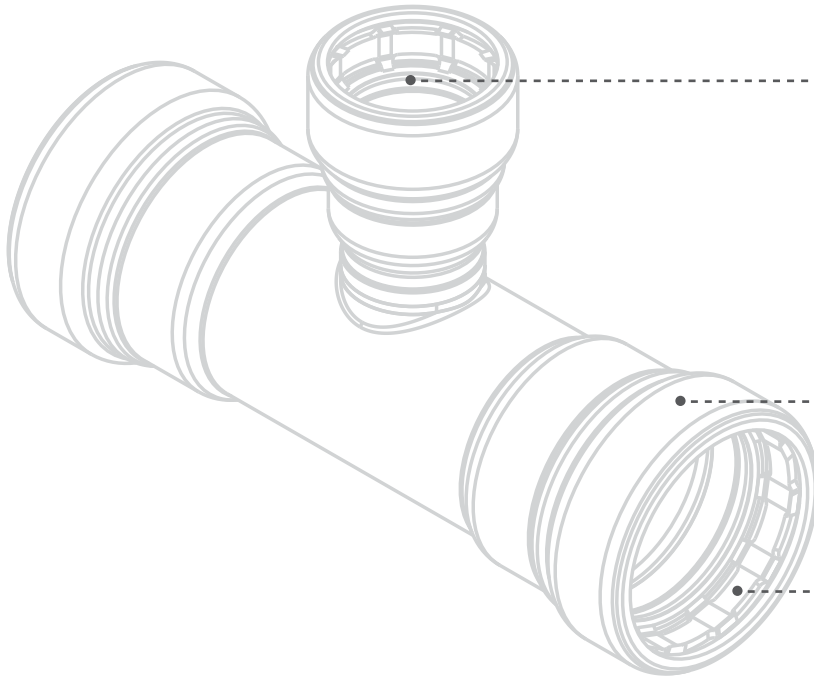


15-Year Limited Warranty for approved mechanical applications\*

\*Approved applications includes non-industrial & non-marine applications

# SUPERIOR INNOVATION

Streamline® Carbon Steel Press Fittings have been engineered with several unique features and industry firsts to provide unmatched joint integrity, optimum system flow, and installer ease of use. Fittings are manufactured to specific ASTM standards & applicable system demands, thoroughly tested, and third-party certified. Proprietary innovations make Streamline® Carbon Steel Press Fittings the superior joining solution for your system:



## **DuoFlex™ Proprietary Seal Technology**

Provides 200% more surface contact and sealing than traditional O-rings. Additionally, the uniquely engineered DuoFlex™ design and material durometer help fill pipe surface imperfections for superior sealing and ultimate leak resistance.

## **Force360™ Uniform Press Technology**

Circular press method of Force360™ ensures that press constriction is tube-conforming and that seal pressure is precise and uniform.

## **DuoBite™ Proprietary Grip Ring Technology**

Two rows of specially designed bi-directional stainless steel gripper DuoBite™ “teeth” provide unsurpassed anti-creep and pull-apart protection for large diameter joints while also improving joint stability and straightness of runs.

## **Why DuoFlex™ Seal?**

We have been around piping and flow-control products for over 100 years. Apart from threaded connections, nearly all pipe joining was originally done with filler metals and applied heat. The strength of these connections was obvious and appreciated. However, what might have gone more unnoticed was the incredible ability of soldering/brazing/welding processes to permanently fill and seal any surface imperfections in the pipe.

To be fair, piping lives a pretty rough life. It gets stored in hard steel bunks, gets shipped on open-top flatbeds, gets drug around dirty construction sites, gets hauled up construction elevators, etc., etc. In the case of carbon steel pipe, aka. black iron, it also gets an outside layer of corrosion protection via various paints, lacquers, epoxies, and even galvanizing alloys...all of which present different contact surfaces.

With the growing demand for mechanical joining came a growing reliance on O-ring seals. While O-rings are proven to be highly reliable on piping prepared under the best conditions, we know that is not where our loyal customers work every day. Our engineers ran hundreds of simulations and live tests that showed how small surface scratches and irregularities can cause annoying, slow leaks. We felt that we needed a way to recreate the impeccable capability of filler metals to address those infrequent gaps.

Thus, our patent-pending DuoFlex™ Seal is being incorporated in all Streamline® Carbon Steel Press Fittings. First, the seal design relies on a primary O-ring portion that does exactly what all others do. Importantly, the seal design adds a secondary, thinner sleeve or membrane portion that triples the amount of surface contact area. The thinner profile allows this portion of the seal to act much more flexible and to seal imperfections that an O-ring simply cannot. We are proud and excited to bring installers technology that leverages our legacy knowledge to help give our customers the confidence they deserve.



## MECHANICAL (STL)

Streamline® STL Carbon Steel Press Fittings are designed for use in mechanical & fire sprinkler piping systems utilizing Schedule 10 & Schedule 40 carbon steel pipe.

### Carbon Steel Fitting Body with:

- Corrosion-resistant zinc-nickel coating
- EPDM engineered sealing element
- 420 stainless steel grip ring
- 304 stainless steel separator ring

### Certifications:

- UL 213 Listed
- ASTM F3226
- FM Class 1920

### Complies With:

- ASME B31: Code for Pressure Piping
- (UMC) Uniform Mechanical Code
- (UPC) Uniform Plumbing Code
- (IMC) International Mechanical Code
- (IPC) International Plumbing Code
- IAPMO PS-117
- NFPA 13, 13D and 13R

### Operating Parameters:

- Operating Pressure: 200 PSI CWP Max
- Test Pressure: 600 PSI CWP Max
- Temperature Range: -40°F to 250°F

### Approved Systems:

- Compressed Air (Max 200 PSI)
- Chilled water (Max 200 PSI)
- Hydronic Heating (Max 200 PSI)
- Fire Sprinkler (Max 200 PSI)
- Low Pressure Steam (up to 5 psi)
- Technical Gases



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# *Streamline*<sup>®</sup> YOUR SYSTEM

Streamline<sup>®</sup> is the preferred and specified brand of industry professionals around the world. Why? They know that since 1930, Streamline<sup>®</sup> products have been designed for trouble-free performance and manufactured to the highest standards. From tubing and fittings to valves and more, Streamline<sup>®</sup> offers a suite of quality products to support a broad range of piping systems and applications. Streamline<sup>®</sup> Your System, and get the confidence that only comes when a solution is designed to work together.

- Plumbing Supply Systems
- Drain, Waste, & Vent System
- Air Conditioning Systems
- Refrigeration Systems
- High-Pressure CO2 System
- Medical Gas/Oxygen Systems
- Mechanical & Steam Systems
- LP/Natural Gas Systems
- Industrial/Process Systems
- Hydronic Heating Systems
- Well & Pump Systems
- Underground Service Lines



**MUELLER STREAMLINE CO.**

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