

LOKX System™ Ductile Iron Fitting

Patent # US 11,112,038 B2

The LOKX System™ is a proprietary ductile iron push-on style fitting with an internal self-restraining gasket that prevents pipe-to-pipe and pipe-to-fitting separation at high pressures. Highly engineered, LOKX System is fast and easy to install, capable of a total 10 degrees of deflection in any direction (5 degrees per bell), and designed to be compatible with any PVC and HDPE pipe.

The LOKX System is capable of restraining against water hammer regardless of the PVC or HDPE pipe wall, and without the need for stainless steel stiffeners. LOKX is manufactured to AWWA C153 and coated with fusion bonded epoxy to meet AWWA C116.

In short, ease and speed of installation, the elimination of any need for thrust blocking, while also being corrosion and leak resistant means the LOKX System is the ideal solution for pipe-to-pipe and pipe-to-fitting applications. LOKX is available in numerous configurations, and can be used on any DR C900, C909, PVC or C906 HDPE 4" through 12" pipe while providing maintenance free peace of mind for up to 50 years.

Features & Benefits

LOKX System™

- Reduce installation and labor costs up to 80%
- Corrosion resistant fusion bonded epoxy coating
- Fewer components to inventory & assemble than traditional MJ systems resulting in a system that is up to 40% lighter
- Available in numerous sizes and configurations

Traditional MJ Systems

- Time & labor intensive to install
- Failures due to installation errors
- Numerous steel bolts prone to corrosion
- Heavy to move, difficult to warehouse

Traditional MJ Systems



LOKX System™ Ductile Iron Fitting

Solutions to everyday water and waterworks issues

Problem	LOKX System™ Solution
Labor	LOKX System saves over 80% in installation time with the elimination of all bolts and assembly tools
Corrosion	LOKX System fittings are coated with fusion-bonded epoxy inside and out
Deflection after installation	LOKX System has a full 5° deflection per bell after installation (10° total), and can be installed in seismic applications
Integral restraining gasket	Low insertion force lip-seal design gasket with 316 stainless steel gripping segments that are self-engaging
Point loading	When fully engaged, the gripping segments form a 360° restraint preventing pipe distortion and point loading

LOKX System™ General Specifications

Meets or Exceeds Applicable Requirements of the Standards Listed Below

- ANSI/AWWA C153/A21.53 "American National Standard for Ductile Iron Compact Fittings, 3-inch through 24-inch."
- ANSI/AWWA C110/A21.10 "Ductile and Grey Iron Fittings for Water."
- ANSI/AWWA C111/A21.11 "American National Standard for Rubber Gasketed Joints for Ductile Iron Pressure Pipe and Fittings."
- ANSI/AWWA C116/A21.16 "American National Standard for Protective Fusion Bonded Epoxy Coating for the Interior and Exterior Surfaces of Ductile Iron and Grey Iron Fittings for Water Supply Service."
- ASTM F1674 "Standard Test Method for Joint Restraint Products for use with PVC Pipe."
- ASTM D3139 "Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals."
- ASTM F477 "Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe."
- NSF/ANSI 61: Drinking Water System Components-Health Effects
- Underwriters Laboratories Listed (pending)
- Factory Mutual Approved (pending)

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