

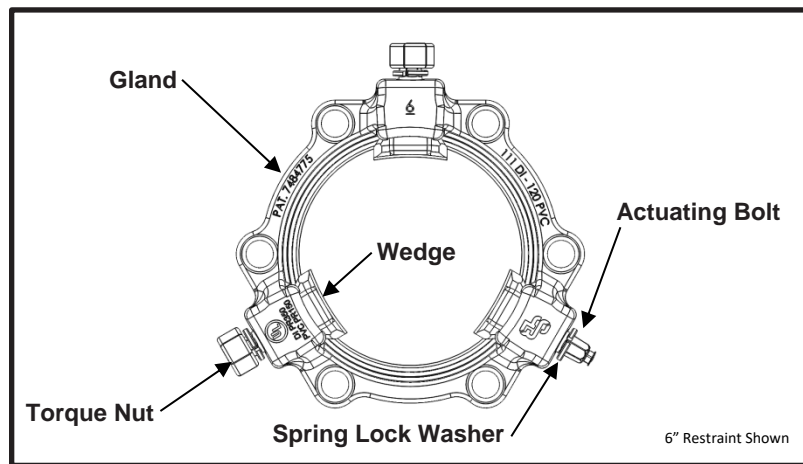


Smith-Blair
a xylem brand

SPECIFICATION

CAM-LOCK™ JOINT RESTRAINT

MODEL 111



APPLICATIONS

- **Typical Uses**
 - Restraining and sealing Ductile Iron or Carbon Steel pipe ends to mechanical joint valves or fittings
- **Standard Pipe Size**
 - Ductile Iron 3" - 48" nominal
 - Carbon Steel 3" - 12" nominal
- **Type of Pipe**
 - Ductile Iron, Carbon Steel
- **Working Pressure**
 - Ductile Iron pipe sizes 3" - 16" = 350 psi, 18" - 48" = 250 psi
 - Carbon Steel pipe sizes 3" - 12" = 250 psi

MATERIALS

- **Gland**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat® fusion bonded epoxy
 - Wedge pocket designed for unique cam action for maximum wedge engagement
 - Maximum Pipe Deflection: 3" = 3°, 4" - 12" = 5°, 14" - 16" = 2°, 18" - 24" = 1.5°, 30" - 48" = 1°
- **Wedge**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - E-Coated Epoxy finish, color coded black
 - Contoured single tooth design for maximum pipe engagement
 - Heat treated to RC 45
- **Torque Nut**
 - 1008/1010 Carbon Steel
 - E-Coated Epoxy finish, color coded black
 - Fits standard socket sizes 3" = 1-1/16", 4"-24" = 1-1/4", 30"-36" = 1-5/8", 42"-48" = 2"
 - Low breakaway torque 45 - 60 ft. lbs.
- **Actuating Bolt**
 - Cast using Ductile Iron 60-40-18 per ASTM A536
 - E-Coated Epoxy finish, color coded black
 - 3/4" - 10 UNC - 2A - LH
 - Secondary 5/8" hex shank used for fitting removal and reuse



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- **Spring Lock Washer**
 - Carbon Steel per ANSI B18.21.1
 - 5/8" diameter
 - Designed to retain actuating bolt to prevent lost hardware if fitting is removed

LISTINGS/STANDARDS

- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213
- UL Listed for restraining UL Listed Ductile Iron fittings to UL Listed Ductile Iron pipe.
Maximum rated pressure: 3" - 16" = 350 psi, 18" = 250 psi, 20"=200 psi, 24"=250 psi

OPTIONS

- Multi-Seal Gasket 4" – 12" sizes
- Anode Connector
- Installation Kit: High Strength Low Alloy (HSLA) Steel 1/2" longer T-bolts, nuts and MJ Gasket accommodating AWWA C110 fittings
- Installation Kit: 304 Stainless Steel 1/2" longer T-bolts, fluoropolymer coated nuts, and MJ Gasket accommodating AWWA C110 fittings

NOTES

- Flexi-Coat® is a registered trademark of Smith-Blair
- Cam-Lock™ is a trademark of Smith-Blair
- These product specifications were correct at the time of publication and are subject to change without notice
- See the Smith-Blair website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice

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