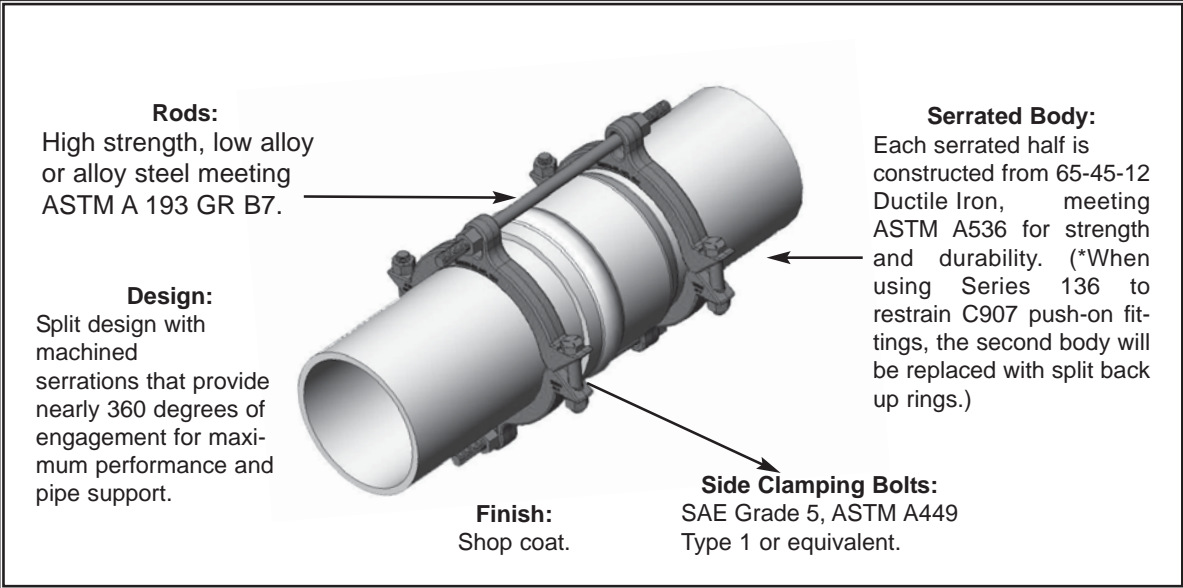


# Bell-Lock Joint Restraints 115, 136 & 165

## Product Specifications



### Features:

- Recessed shoulders allow for single wrench installation
- Compatible with standard mechanical joint and some push-on style fittings.
- Maintains full pipe deflection.
- 360° of pipe support provided - uncompromised restraint.
- Adaptable for new and/or existing pipeline applications.
- Easily installs outside the trench.
- Eliminates need for costly concrete thrust blocks.

Restraint Style (Applications)	Size	Working Pressure
115 (MJ Fittings & Push-On Joints)	4" - 24" Nominal	See next page for pressure ratings.
136 (C907 Push-On Fittings)	4" - 8" Nominal	150 PSI
165 (Bell & Spigot PVC Joints)	4" - 24" Nominal	See next page for pressure ratings.

# Product Specifications

## SPECIFICATION:

Restraints shall incorporate a series of bi-directional machined serrations on the inside diameter of the device to provide positive restraint, proper fit, 360° contact and support of the pipe wall. Restraint Devices shall be manufactured of high strength ductile iron, ASTM A536, Grade 65-45-12 or ASTM A36 structural steel. Clamping bolts shall be SAE Grade A449 Type 1, or approved equivalent, steel and connecting hardware shall be of high strength low alloy material in accordance with ANSI / AWWA C111/A21.11. Restraints shall incorporate recessed shoulders allowing for single wrench installation. Restraints shall be bi-directional. Restraints sizes 4" through 12" shall incorporate positive stops to prevent over tightening. Restraints shall allow for full pipe deflection after burial. Restraints shall be compatible with standard mechanical joint and push-on style fittings. Restraints shall be suitable for PVC and Ductile Iron pipe applications as per the following tables:

### Pressure Ratings on Ductile Iron

#### ANSI/AWWA

#### C151 DI OD

4"-6"	350 PSI
8"	300 PSI
10"	250 PSI
12"	200 PSI
14"	150 PSI
16"	100 PSI

### Pressure Ratings on PVC

#### ANSI/AWWA C900 DI OD

DR 14	200PSI
DR 18	150PSI
DR 25	100PSI

#### ANSI/AWWA C905 CI OD

DR 18	235PSI
DR 21	200PSI
DR 25	165PSI
DR 32.5	125PSI

#### ASTM D2241 IPS/STEEL OD

SDR 17	250PSI
SDR 21	200PSI
SDR 26	160PSI

Backup rings for the 136 used to restrain pipe to C907 push-on fittings shall be designed to rest behind the gasket wall on the fitting. The rings shall be designed to interlock, requiring no clamping bolts to hold them together. In addition, Series 115 and 165 Bell-Lock joint restraints shall meet or exceed the requirements of Uni-B-13-94, recommended performance specification for joint restraint devices for use with Polyvinyl Chloride (PVC) Pipe. Restraint devices for mechanical joint or push-on fittings shall be Smith-Blair, Inc. 100 Series Bell-Lock or approved equal.

### Approved By

Name:

Title:

Date:

*THESE PRODUCT SPECIFICATIONS WERE CORRECT AT TIME OF PUBLICATION.*

*MATERIAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

*SEE CATALOG BROCHURE CC-100 FOR MORE DETAILS. VISIT SMITH-BLAIR'S WEBSITE AT [WWW.SMITH-BLAIR.COM](http://WWW.SMITH-BLAIR.COM) TO DOWNLOAD THE MOST CURRENT INFORMATION.*



**Ph: 870-773-5127 • Fax: 870-773-5212 • [www.smith-blair.com](http://www.smith-blair.com)**  
**Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792**  
**30 Globe Ave, Texarkana, AR 71854 • PO Box 5337, Texarkana, TX 75505**