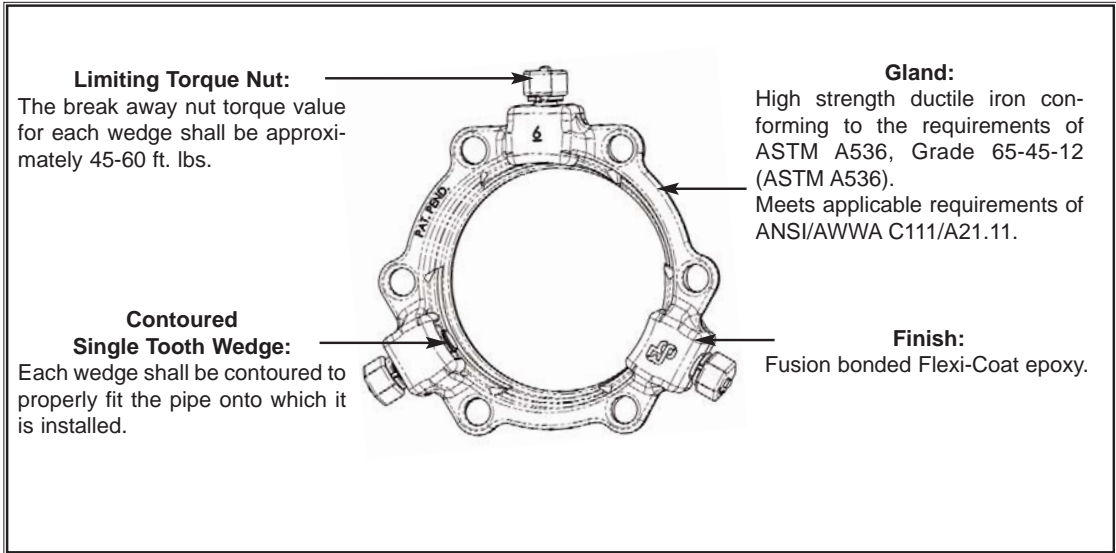


Cam-Lock Joint Restraints 111 and 120

Product Specifications



Features:

- Fewer wedges
- 1/2" Longer T-bolts
- Unique cam action
- Contoured wedges
- No modifications necessary (for C-900 or IPS size pipe)
- Lower actuating-bolt torque
- Installs with standard wrenches
- All essential parts remain intact
- Wedges and nuts are color coded
- Secondary hex shank for easy removal
- Visible independent wedge engagement
- Multi-Seal MJ Gasket available 4"-12" PVC (fits both IPS and DI PVC pipe).

Clamp Number	Size	Working Pressure
111 (DI Pipe)	4" - 16" Nominal	350 PSI
111 (DI Pipe)	18" - 24" Nominal	250 PSI
120 (PVC Pipe)	4" - 24" Nominal	Rated at pressure rating of the PVC pipe it is used on.

Product Specifications

SPECIFICATION:

Mechanical restraint for standard mechanical joints for nominal pipe sizes 4" through 24" shall be an integral part of the follower gland utilizing multiple single tooth wedges. Each gland shall incorporate cam action, independent wedge engagement and meet applicable requirements of ANSI/AWWA C111/A21.11.

Restraint devices sized through 8" for PVC or Ductile Iron applications shall utilize no more than three wedges per device. Assembled joints through 12" shall allow for five degree deflection and assembled joints 14" through 24" shall allow for three degrees of deflection. Each assembled joint shall maintain flexibility after burial.

Wedge action restraints shall incorporate positive visual indication that each wedge properly engaged the pipe onto which it is installed. Actuating bolts shall not have limited thread travel.

Each wedge action restraint shall restrain IPS size or ductile iron size PVC pipe without

modification. Each wedge shall be contoured to properly fit the pipe onto which it is installed. The break away nut torque value for each wedge shall be approximately 45-60 ft. lbs.

Restraining glands shall be manufactured of high strength ductile iron conforming to the requirements of ASTM A536, Grade 65-45-12 (ASTM A536). Each gland shall be applicable for installations with the standardized mechanical joint bell and tee head bolts conforming to the requirements of ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 of latest revision. Each restraint shall be rated to the working pressure of the pipe on to which it is installed with a minimum 2:1 safety factor.

Restraint glands shall have a factory applied Flexi-Coat epoxy coating. All actuating components shall be manufactured of 60-40-18 ductile iron at a minimum and E-coated red for PVC applications and black for ductile iron applications.

The mechanical joint restraint device shall be a Smith-Blair, Inc., 111 or 120 Cam-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 TO DOWNLOAD THE MOST CURRENT INFORMATION.



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