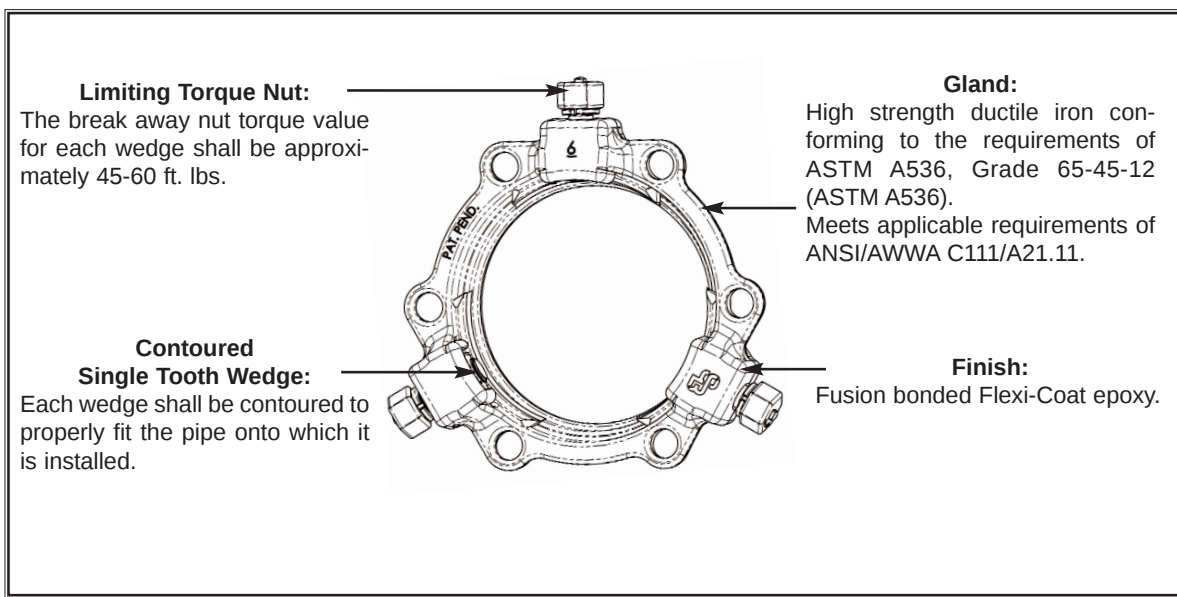


Cam-Lock Joint Restraints 111 and 120

Product Specifications



Check the CC-100 brochure for UL/FM listings.

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).

Restraint Number	Size	Working Pressure
111 (DI Pipe)	4" - 16" Nominal	350 PSI
111 (DI Pipe)	18" - 48" Nominal	250 PSI
111 (Steel Pipe)	3" - 12" Nominal	250 PSI
120 (PVC Pipe)	4" - 36" 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 3" through 48" shall be an integral part of the follower gland utilizing multiple single tooth wedges. Each follower gland shall incorporate cam action, independent wedge engagement and meet applicable requirements of ANSI/AWWA C111/A21.11. Restraints sized through 8" for PVC or Ductile Iron applications shall utilize no more than three mechanical restraint wedges per device. Assembled joints through 12" shall allow for five degree deflection, two degrees 14" through 24", 1.5 degrees 18'-24", one degree 30"-48". Each assembled joint shall maintain flexibility after burial. Follower glands shall incorporate positive visual indication that each wedge properly engaged the pipe onto which it is installed. Actuating bolts for the mechanical wedges shall not have limited thread travel. 3" through 12" restraints shall properly restrain IPS size or ductile iron size PVC pipe and steel pipe without modification. Each

mechanical restraint wedge shall be contoured to properly fit the pipe onto which it is installed. Wedges for 3" through 48" ductile iron applications and 3" though 12" steel pipe shall be heat treated and e-coated black. The breakaway nut torque value for each wedge shall be approximately 45-60 ft. lbs. Glands shall be manufactured of high strength ductile iron conforming to the requirements of ASTM A536, Grade 65-45-12. 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. Glands shall have a factory applied Flexi-Coat fusion-bonded epoxy, to an average of 12-mil thickness. All actuating components shall be manufactured of ASTM A 536 Grade 60-40-18 ductile iron at a minimum and e-coated red for PVC applications and black for ductile iron and steel pipe applications. The gasket shall be SBR standard mechanical joint meeting AWWA C111 and ANSI A21.11.

Wedge Action Mechanical Joint Restraints shall be a Smith-Blair, Inc., 111, 120 series 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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