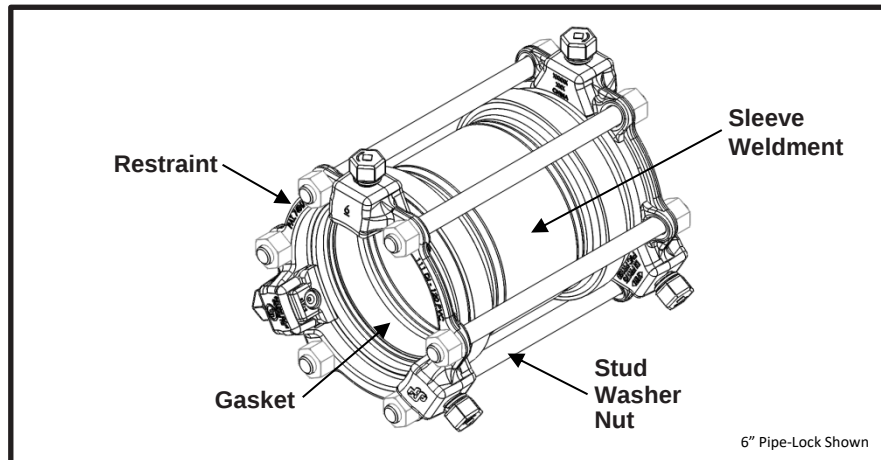


SPECIFICATION

PIPE-LOCK™ STEEL RESTRAINT COUPLING

MODEL 471



APPLICATIONS

- **Typical Uses**
 - Joining and restraining plain-end ductile iron pipe ends
 - Joining and restraining plain-end carbon steel pipe ends
 - Replace split or excessively damaged pipe
- **Standard Pipe Size**
 - DI sized 3" - 48" nominal
 - IPS sized 3" - 12" nominal
- **Type of Pipe**
 - Ductile Iron, Carbon Steel
- **Working Pressure** (*see notes*)
 - DI pipe sizes 3" - 16" = 350 psi, 18" - 48" = 250 psi
 - IPS pipe sizes 3" - 12" = 250 psi

MATERIALS

- **Sleeve Weldment**
 - See 477 specification document
- **Restraint**
 - See 111 specification document
- **Gasket**
 - Styrene Butadiene Rubber (SBR) per AWWA C111/A21.11
 - Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - Temperature range: -20°F to +180°F
 - Permanently marked with part number and pipe size range for proper selection
- **Stud**
 - HSLA Carbon Steel per AWWA C111/A21.11 and/or ASTM A193 GRB7
 - Size:
 - 3" nominal pipe size = 5/8" - 11 UNC
 - 4" - 24" nominal pipe size = 3/4" - 10 UNC
 - 30" - 36" nominal pipe size = 1-0" - 8 UNC
 - 42" - 48" nominal pipe size = 1-1/4" - 7 UN
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish



SPECIFICATION

PIPE-LOCK™ STEEL RESTRAINT COUPLING

MODEL 471

▪ Washer

- Carbon Steel per ASTM A108
- Electro-galvanized with dichromate seal per ASTM B633 for improved corrosion resistance
- Size:
 - 3" nominal pipe size = 5/8" Type A Plain
 - 4" – 24" nominal pipe size = 3/4" Type A Plain
 - 30" – 36" nominal pipe size = 1-0" Type A Plain
 - 42" – 48" nominal pipe size = 1-1/4" Type A Plain
- Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface

LISTINGS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

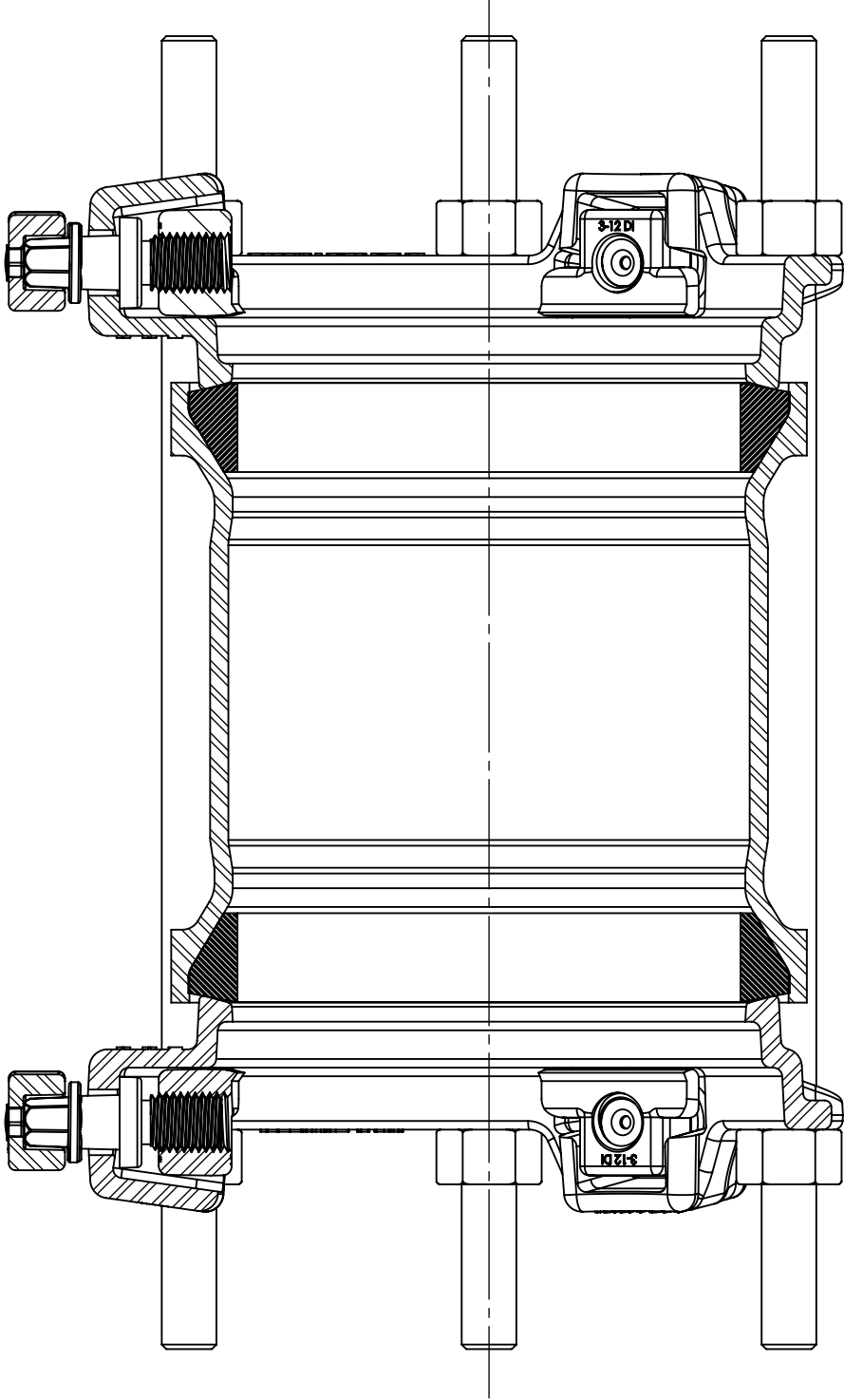
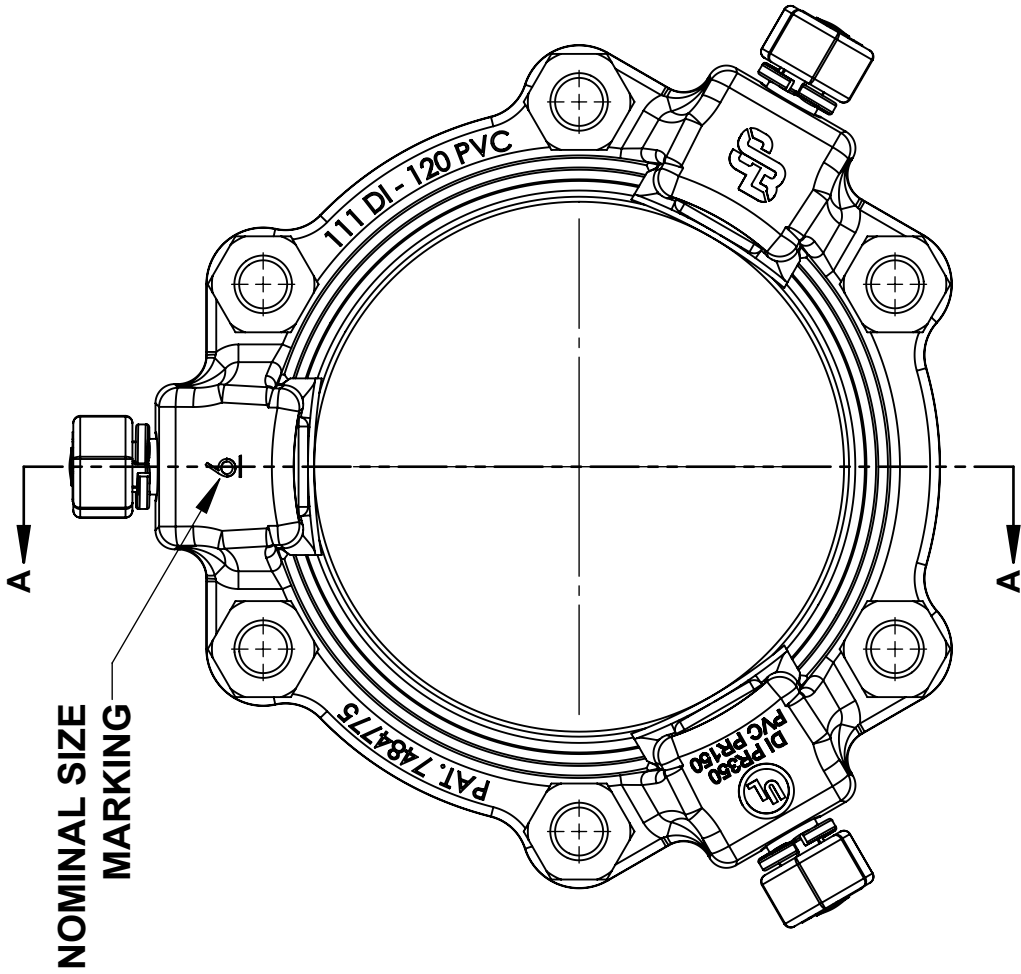
OPTIONS

- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Multi-Seal Gasket 4" - 12"
- Alternative gasket material (e.g. Buna-N, EPDM, etc.)

NOTES

- If joining DI to Steel size pipe, the working pressure would be the lower rating of the two pipe types.
- These product specifications were correct at the time of publication and are subject to change without notice
- Pipe-Lock™ is a trademark of Smith-Blair Inc.
- See the Smith-Blair web site for part numbers and ordering information
- See the Smith-Blair web site for warranty information
- See the Smith-Blair web site for corrosion notice

30 Globe Ave, Texarkana, AR 71854
Ph: 870-773-5127 • Fax: 870-773-5212
Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792



SECTION A-A

DI/STEEL X DI/STEEL

- NOTES:
- 1. SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
 - 2. 6" COUPLING SHOWN OTHER SIZES SIMILAR
 - 3. SEE MODEL 477 AND 111 SPECIFICATIONS FOR ADDITIONAL DETAILS

TOLERANCES U.N.O. XX= ±.03 XXX= ±.015 FRACTIONS= ANGLES=+1° MACH. FIN=		NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.		APP'D	DATE	
		SCALE: N/A		CK'D	DATE	
ALL DIMENSIONS ARE IN INCHES.				DRN	CHD	10/19/15
TITLE						
SPECIFICATION						
PIPE-LOCK™ STEEL RESTRAINT COUPLING						
MODEL 471						
P/N				N/A		
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS				SPEC_471.DRW		
				DWG. NO.		
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