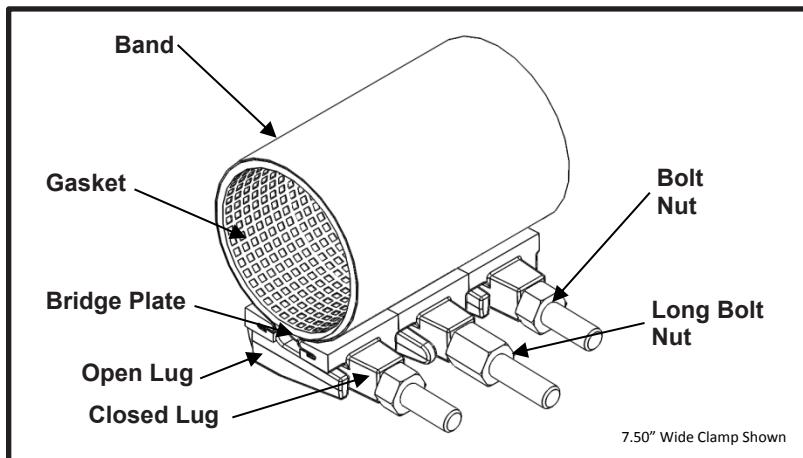


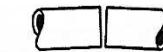
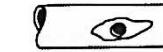
# SPECIFICATION

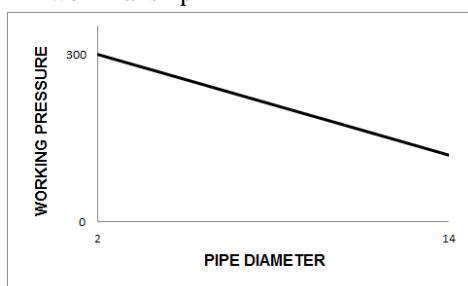
## FULL CIRCLE® REPAIR CLAMP

### MODEL 226



#### APPLICATIONS

- **Typical Uses**
  - Repair leaks due to complete breaks, splits, or holes
  - Joining pipes of the same diameter
  - Examples:
    -  Full break
    -  Holes
    -  Cracks or splits
    -  Pin Holes
    -  Couple plain end pipe  
New construction or repairs
    -  Couple deflected or slightly misaligned pipe ends
    -  Pulled service connections or  
branch lines
- **Standard Pipe Sizes**
  - 2" to 14" nominal
- **Standard Widths**
  - 7.5", 10.0", 12.5", 15.0", 20.0", 25.0", 30.0"
- **Type of Pipe**
  - Carbon Steel, Stainless Steel, Ductile Iron, PVC, HDPE DR17 or thicker (with use of spring washers), Asbestos Cement, Copper, Aluminum
- **Working Pressure**
  - Up to 300 psi depending on type of pipe, type of repair, pipe diameter, service conditions and installation workmanship





# SPECIFICATION

## FULL CIRCLE® REPAIR CLAMP

### MODEL 226

#### MATERIALS

##### ▪ Band

- Type 304 Stainless Steel per ASTM A240
- Band Thickness: 24 gauge thick for clamps 4.50" diameter and smaller  
20 gauge thick for clamps 4.80" diameter and larger
- Hemmed ends for lug removal in tight applications

##### ▪ Lugs

- Cast using Ductile Iron 80-55-06 per ASTM A536
- Flexi-Coat® fusion bonded epoxy finish
- Slot cast in lug to capture band hem
- Designed for drop in replaceable bolts
- One open loop lug and one closed loop lug. The bolts do not have to be removed to install clamp, preventing lost hardware
- Long interlocking fingers allow for up to 0.40 inches of range in clamp
- Interchangeable lugs allow combining smaller diameter clamps to create larger diameter clamps
- Mutually supporting sliding fingers assures proper bolt alignment and permits maximum clamping without bending bolts

##### ▪ Gasket

- Nitrile (Buna-N) per ASTM D2000
- Gasket Thickness: 0.192" thickness for clamps 4.50" diameter and smaller  
0.218" thickness for clamps 4.80" diameter and larger
- Certified to NSF/ANSI 61-G & 372
- Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
- Temperature range: -20°F to +180°F
- Full 360° gridded face gasket provides maximum pipe support, reinforcement, and sealing pressure
- Tapered ends allow for full circumferential sealing

##### ▪ Bridge Plate

- Type 304 Stainless Steel quarter-hard per ASTM A240
- Molded and recessed into gasket
- Preformed for uniform distribution of gasket pressure over the entire pipe circumference

##### ▪ Bolts

- HSLA Carbon Steel per AWWA C111/A21.11
- 5/8"-11UNC x 6.00" long, Track Head Oval Neck
- Fe/Zn coated per ASTM F1941-10
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Drop in replaceable bolts

##### ▪ Long Bolts

- HSLA Carbon Steel per AWWA C111/A21.11
- 5/8"-11UNC x 6.88" long, Track Head Oval Neck
- Fe/Zn coated per ASTM F1941-10
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Used on clamps 4.50" diameter and smaller to facilitate the initial clamp installation
- Drop in replaceable bolts

##### ▪ Nuts

- HSLA Carbon Steel per AWWA C111/A21.11
- 5/8"-11UNC, Heavy Hex Semi-Finished
- Fe/Zn coated per ASTM F1941-10



# SPECIFICATION

## FULL CIRCLE® REPAIR CLAMP

### MODEL 226

#### ▪ Long Nuts

- HSLA Carbon Steel per AWWA C111/A21.11
- 5/8"-11UNC x 1.00" long, Heavy Hex Semi-Finished
- Fe/Zn coated per ASTM F1941-10
- Used to provide hand tightening during initial clamp installation

#### LISTINGS

- Certified to NSF/ANSI 61-G & 372
- Meets applicable AWWA C230 standards

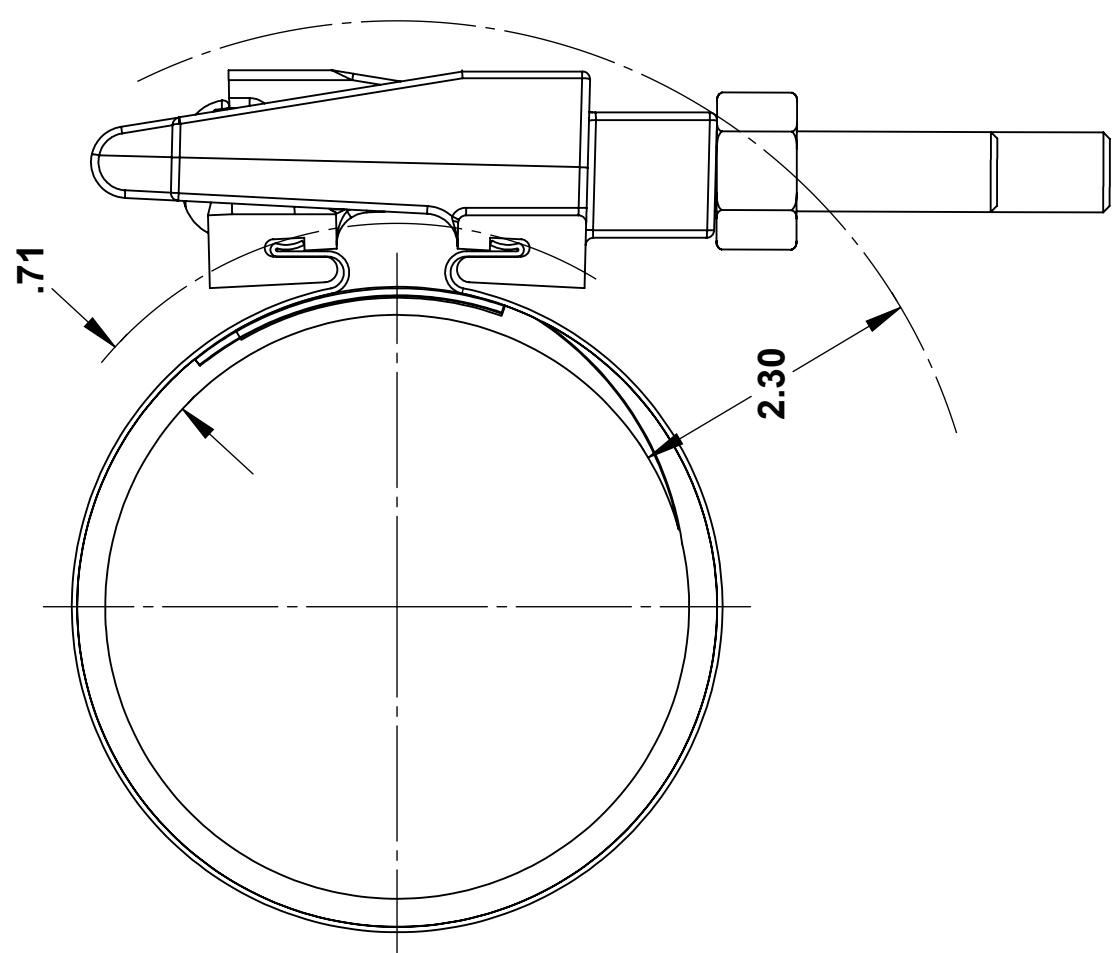
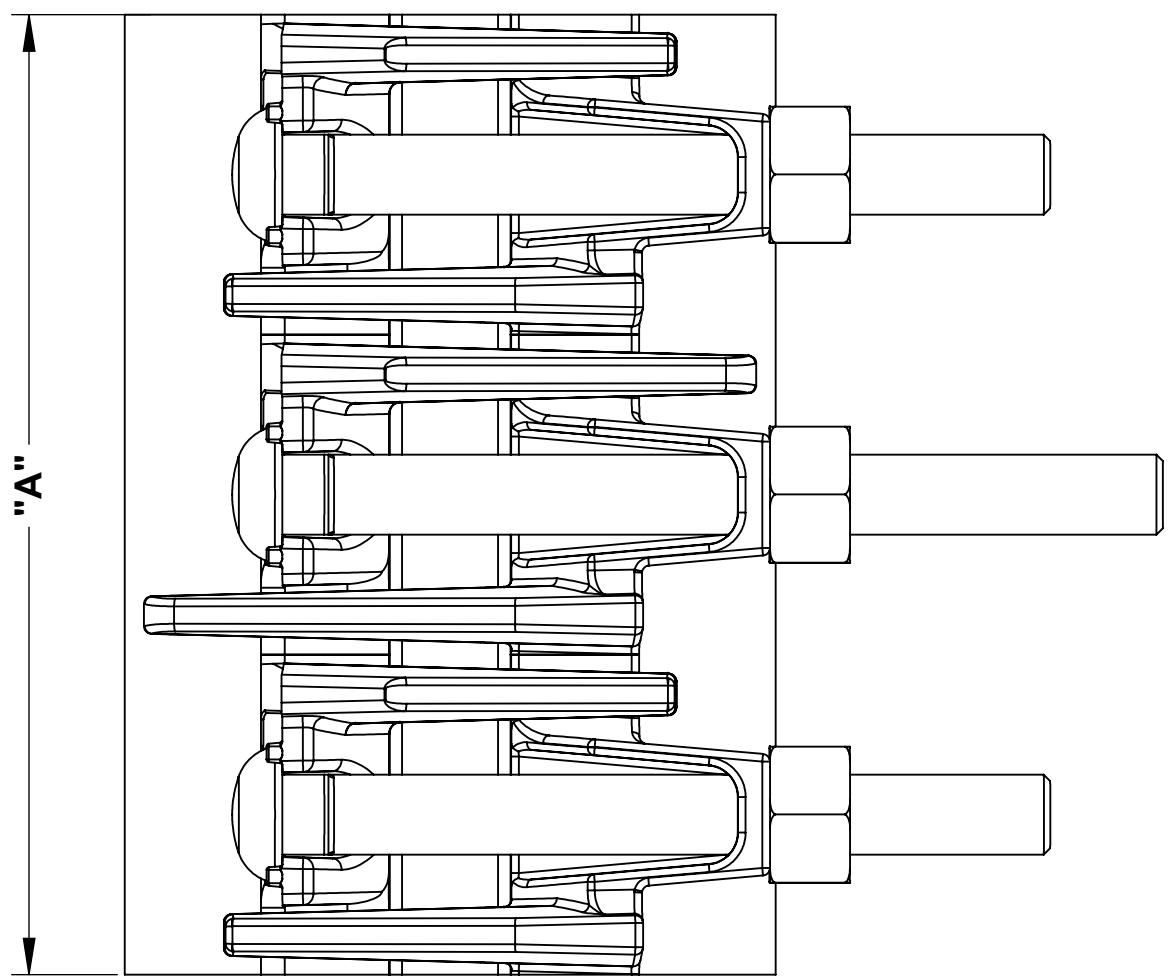
#### OPTIONS

- Type 316 Stainless Steel band
- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Alternative gasket material (e.g. Viton, EPDM, etc.)
- Spring washers for use of clamp on HDPE pipe
- Offset gaskets to allow for repairing longer cracks using multiple clamps
- Conductivity feature

#### NOTES

- This product **does not** restrain the pipe from pulling out of the fitting
- Spring washers **are required** when this product is used on DR17 or thicker HDPE pipe (Not recommended for use on HDPE pipe DR 17 or thinner)
- Pipe stiffeners **are required** when this product is used to join HDPE and thin wall PVC pipe
- Full Circle® is a registered trademark of Smith-Blair Inc.
- These product specifications were correct at the time of publication and are subject to change without notice
- 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 warnings

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



**NOTES:**

1. LONG OVAL NECK BOLTS ONLY PROVIDED ON CLAMPS  
4.50" DIAMETER AND SMALLER
2. SEE SMITH-BLAIR CATALOG FOR AVAILABLE PIPE DIAMETER  
AND WIDTH COMBINATIONS AS SOME COMBINATIONS ARE  
NOT AVAILABLE
3. 7.50" WIDE CLAMP SHOWN OTHER SIZES SIMILAR

A	BOLT QUANTITY			LONG NUT QUANTITY	SOCKET SIZE
	SHORT	LONG	TOTAL		
7.50	2	1	3	1	
10.00	2	2	4	2	
12.50	3	2	5	2	
15.00	4	2	6	2	1-1/16"
20.00	8	-	8	3	
25.00	10	-	10	4	
30.00	12	-	12	4	

TOLERANCES U.N.O.	NOTES: XX= $\pm .03$ XXX= $\pm .015$ FRACTIONS= ANGLES= $\pm 1^\circ$ MACH. FIN=	APP'D	DATE
CK'D		CK'D	DATE
SCALE: N/A	ALL DIMENSIONS ARE IN INCHES.	DRN	CHD

TITLE	<b>SPECIFICATION</b>		
	<b>FULL CIRCLE® REPAIR CLAMP</b>		
<b>MODEL 226</b>			
SMITH-BLAIR, Inc.			P/N N/A
TEXARKANA, ARKANSAS			SPEC_226.DRW
DWG. NO.			1 OF 1 2/19/16 REV.
SHEET			