

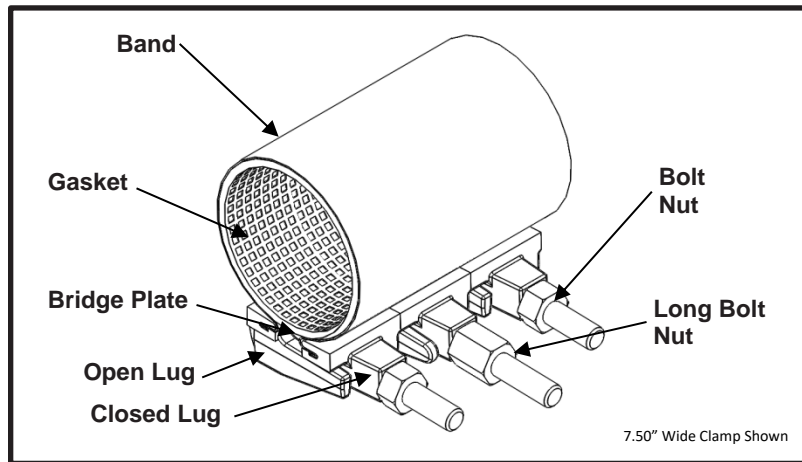


Smith-Blair  
a xylem brand

# SPECIFICATION

## FULL CIRCLE<sup>®</sup> REPAIR CLAMP

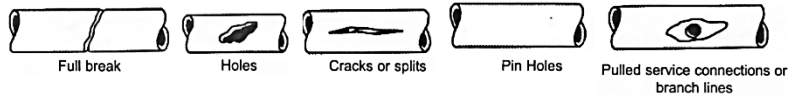
### MODEL 225-1



#### APPLICATIONS

##### Typical Uses

- Repair leaks due to complete breaks, splits, or holes
- Examples:



##### 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, Cast Iron

##### Working Pressure

- 125 psi for 2"-10" nominal pipe sizes
- 100 psi for 12"-14" nominal pipe sizes

#### 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



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- **Lugs**
  - Cast using Ductile Iron 80-55-06 per ASTM A536
  - Flexi-Coat<sup>®</sup> 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
  - Compounded to resist oil, natural gas, acids, alkalis, 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**
  - High Strength Low Alloy (HSLA) 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 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 Steel per AWWA C111/A21.11
  - 5/8"-11UNC, Heavy Hex Semi-Finished
  - Fe/Zn coated per ASTM F1941-10
- **Long Nuts**
  - HSLA 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



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#### LISTINGS/STANDARDS

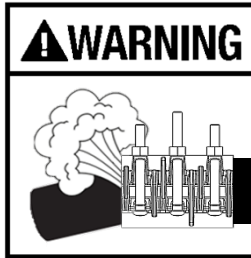
- Meets applicable D.O.T. Title 49 Section 192 regulations
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

#### 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
- Offset gaskets to allow for repairing longer cracks using multiple clamps
- Conductivity feature

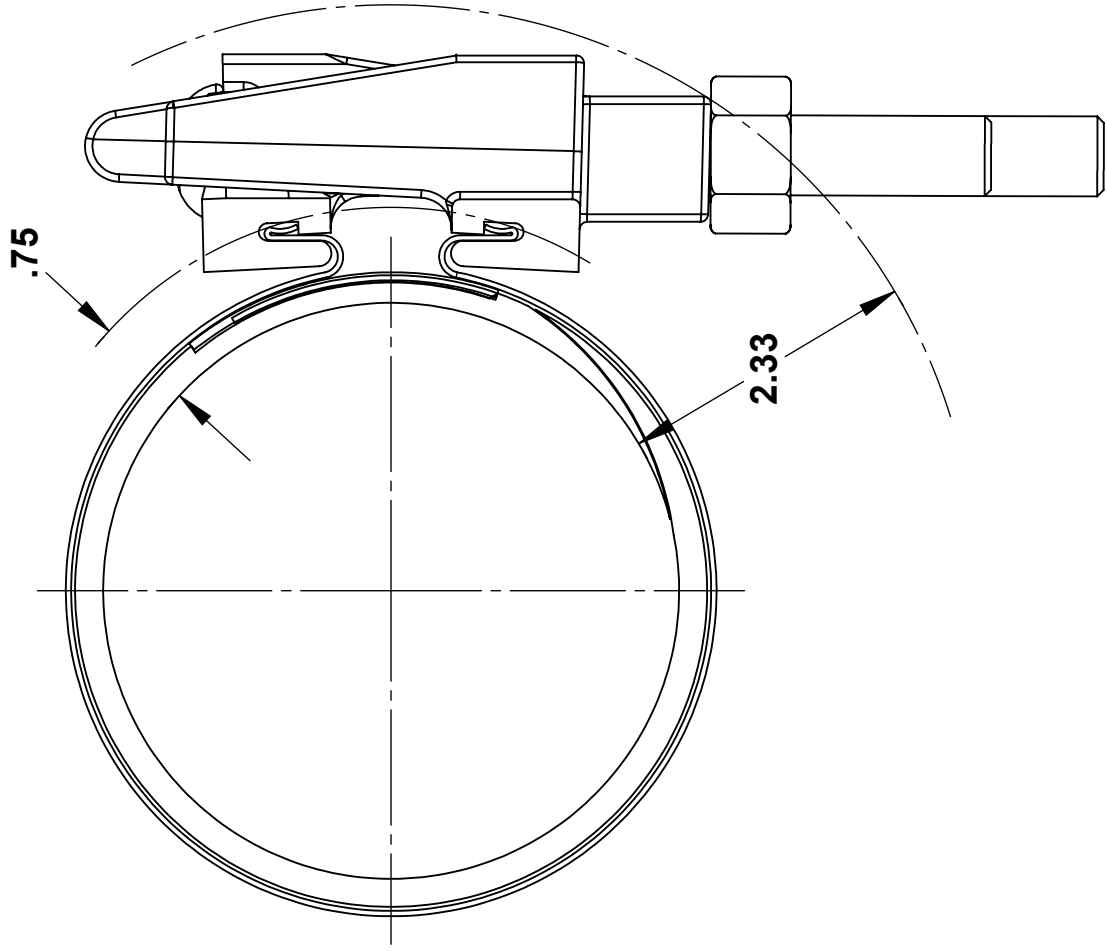
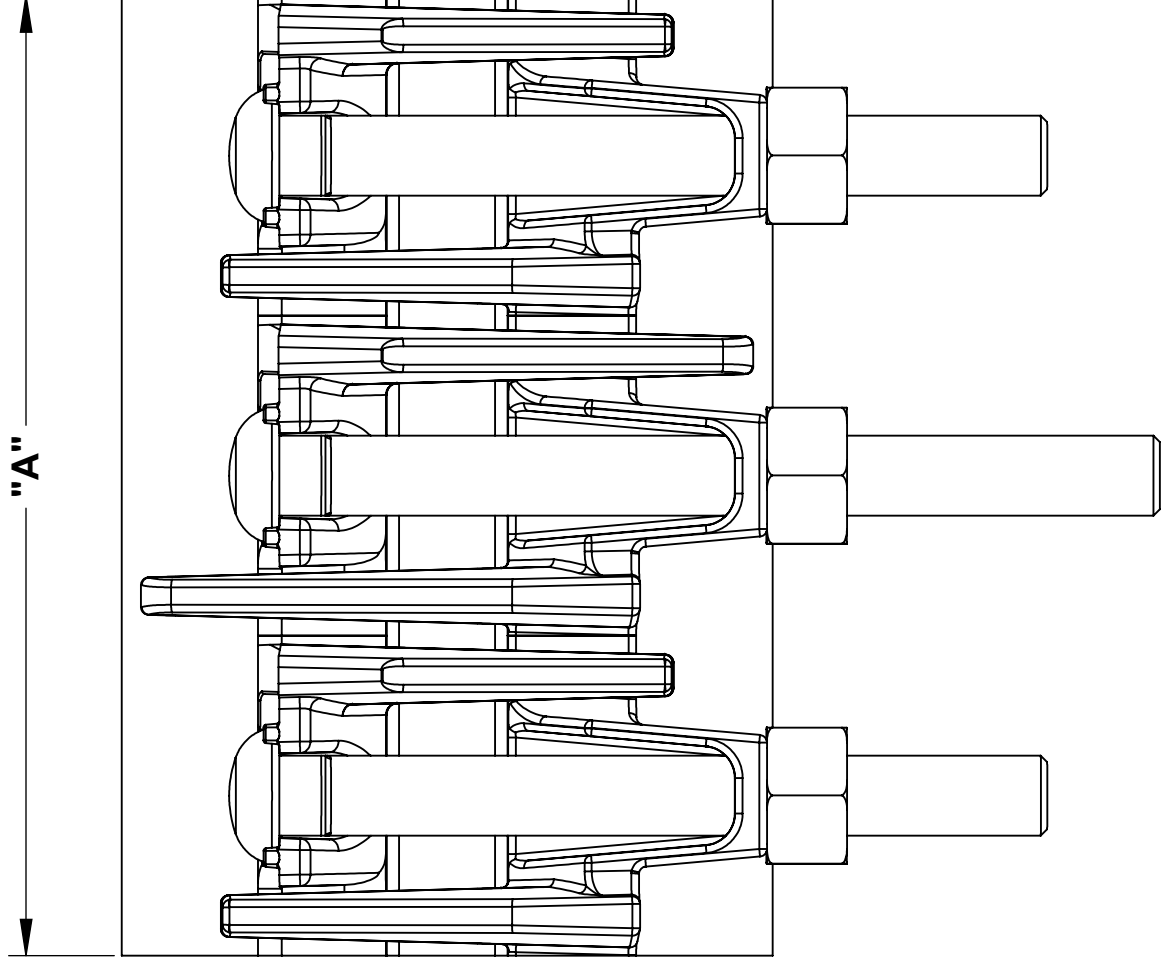
#### NOTES

- Full Circle® is a registered trademark of Smith-Blair
- These product specifications were correct at the time of publication and are subject to change without notice
- See the Smith-Blair website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice



**THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT.** Proper anchoring is required to prevent pipe pull out. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, and/or death. Read the product installation instructions prior to installing this product.

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	1-1/16"
10.00	2	2	4	2	
12.50	3	2	5	2	
15.00	4	2	6	2	
20.00	8	-	8	3	
25.00	10	-	10	4	
30.00	12	-	12	4	

TOLERANCES U.N.O.  
 XX= ±.03  
 XXX= ±.015  
 FRACTIONS= ±.015  
 ANGLES= ±1°  
 MACH. FIN=

NOTES:  
 REMOVE BURRS  
 AND SHARP EDGES  
 DO NOT SCALE DWG.

SCALE: N/A

APP'D DATE  
 CK'D DATE  
 DRN DATE  
 CHD DATE  
 6/10/15

**TITLE**  
**SPECIFICATION**  
**FULL CIRCLE® REPAIR CLAMP**  
**MODEL 225-1**

**SB Smith-Blair**  
 a xylem brand

P/N N/A  
 DWG. NO. **SPEC\_225-1.DRW**  
 1 OF 1 SHEET  
 8/30/16 REV.