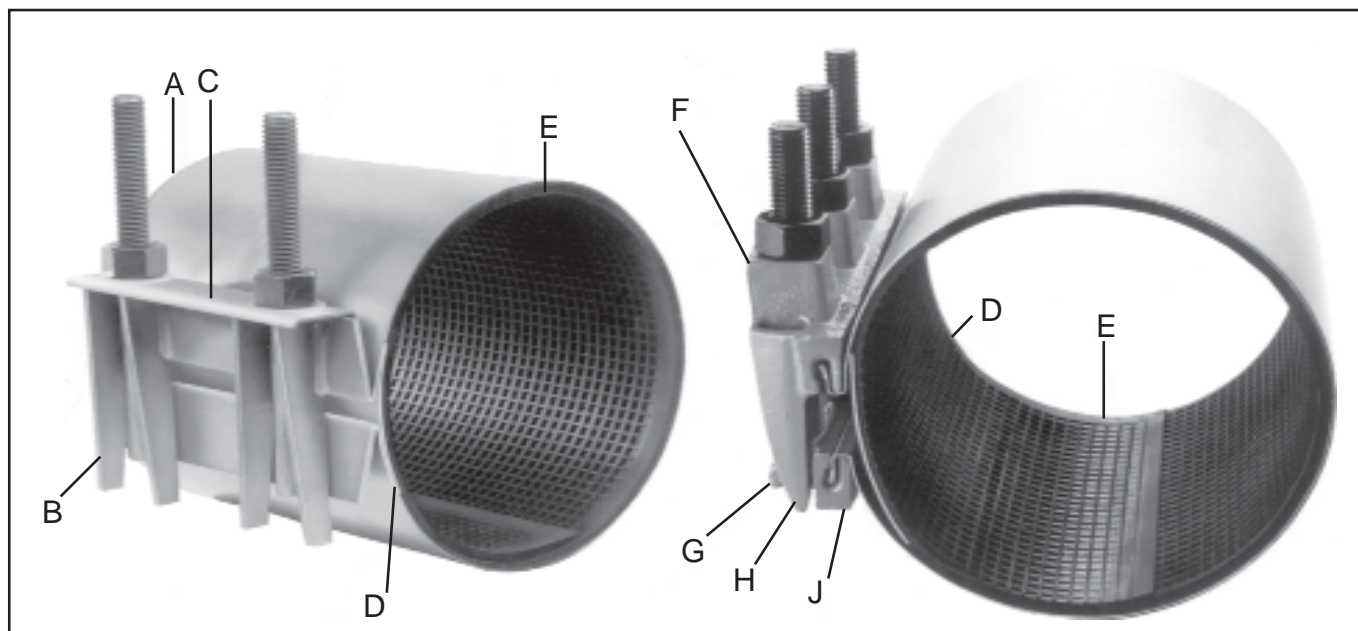


## General Information



**A** Full circumference single or multiple section stainless steel bands are available in 7 1/2", 10", 15", 20" and 30" widths to fit virtually all types and sizes of pipe up to 12" in diameter.

**B** All weldments including studs, sidebars and fingers are constructed of premium grade stainless steel to minimize the possibility of corrosion.

**C** Smith-Blair's exclusive "C" shaped keeper bar permits fast run-down of nuts against the clamps weldments while equalizing tension along the full length of the clamp.

**D** Bridge plate flush mounted and bonded to the gasket assures even distribution of gasket pressure and prevents crimping.

**E** Gridded, tapered, overlapping gasket design offers

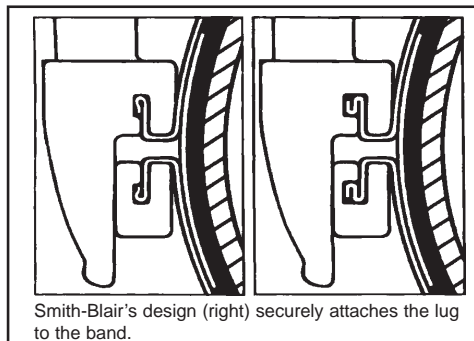
excellent full circumferential sealing and full adjustment to rough pipe surfaces.

**F** A special high-strength ductile iron alloy lug utilizes a strength efficient computer-aided design that's not only stronger, but also lighter and easier to install. Lugs are Flexi-Coat epoxy coated.

**G** Drop-in, self-securing bolts eliminate loose parts, save time and make installation possible with only one wrench.

**H** Lugs with mutually supporting sliding fingers to assure proper bolt alignment while tightening. Permits maximum torque without bending of bolts.

**J** The band locking system uses a unique lug core design and a band hemming process that resists pull-out and provides maximum band retention.



### Electrical Conductivity Buttons

Copper electrical conductor buttons are available for most 200 series Full Circle® Repair Clamps for Gas Service. Factory installed conductor buttons are glued between the gasket and the stainless steel band with contact buttons protruding through specially prepared gaskets to accommodate cathodic protection.

When ordering clamps with factory installed conductor buttons, change the first digit of the last three digits in the catalog number to a 7.

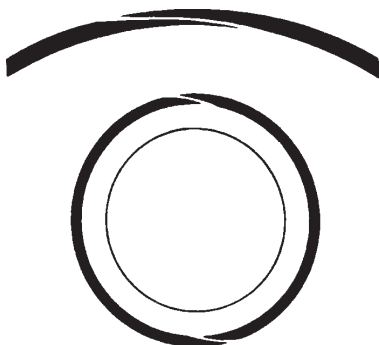
XXX-XXXXXX-700 Conductor buttons and low alloy bolts.  
XXX-XXXXXX-701-Conductor buttons and stainless steel bolts.  
XXX-XXXXXX-099 Extra nut for anode attachment.  
XXX-XXXXXX-799 Conductor strips and extra nut.



**EXAMPLES:**

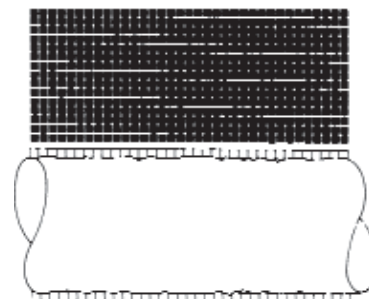
## Smith-Blair Repair Clamps seal positively and effectively

### Tapered and Lapped Gaskets



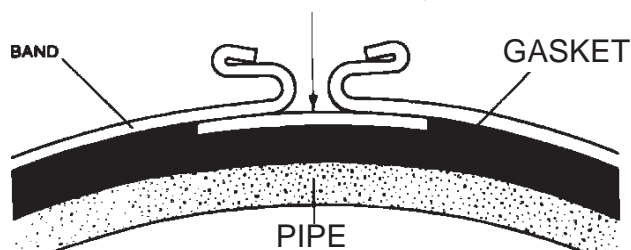
Smith-Blair tapered, lapped gaskets provide a continuous and uniform seal over the full O.D. range of the clamp.

### Finely Grided Gasket



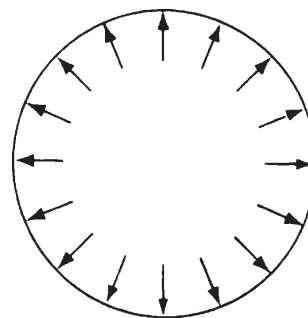
Smith-Blair finely grided gaskets have 16 grids to the square inch; form a series of dams to conform to irregularities on the pipe surface; and seal effectively against rough or pitted surfaces to prevent development of a leak path.

### Smith-Blair Recessed Bridge Plate Bonded-In Recessed Bridge Plate



Smith-Blair® bridge plates are precision set, flush mounted and securely bonded into the gasket during the molding operation. This provides a smooth surface, which insures a 100% encirclement of uniform gasket pressure. A dependable method of sealing.

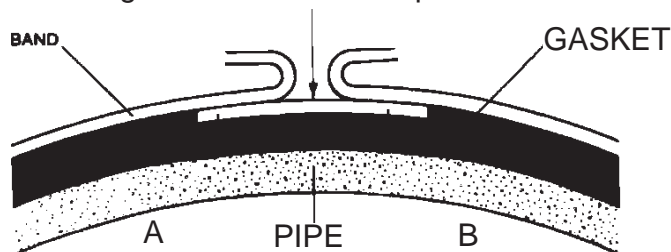
### Uniform Distribution of Gasket Pressure



There is a uniform distribution of gasket pressure over the entire circumference of the pipe.

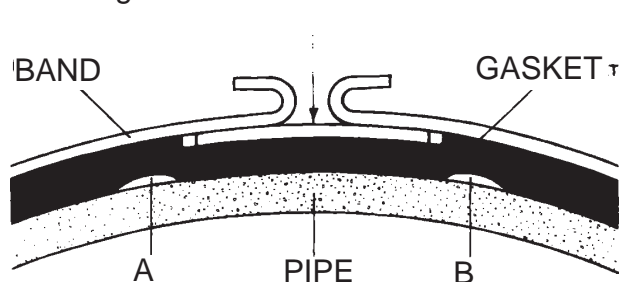
### Other Methods of Bridge Plate

#### Bridge Plate Glued on Top of Gasket



Bridge plates attached to the clamp band or glued to the outside of the gasket have exposed metal edges that hold the band away from the gasket, setting up low pressure points as in "A" and "B" above, which are potential leak paths. The exposed metal edge can also hang up on the clamp band and impede tightening of the clamp.

#### Bridge Plate Glued in Molded Recess



Bridge plates that are glued into recesses formed in the gasket during molding, may not fit the recess properly. There may be void spaces that create low pressure points, as at "A" and "B" above which are potential leak points.



# 259 Full Circle® Repair Clamp

## Double Band

### All Stainless Steel, Cast Lugs



**Smith-Blair 259 Full Circle® Repair Clamps**, designed especially for HOT SOIL or other aggressive environments, provide a fast, economical means of repairing damage on cast iron, steel and other types of pipes.

Each clamp repair a variety of types and classes of pipe in each nominal size 4" through 12".

The lugs have mutually supporting fingers to permit maximum torquing of the bolts. The gasket is a lap type with molded tapered ends and a finely gridded surface to conform to irregularities on the pipe surface.

The bridge plate is molded flush into the gasket to prevent wrinkling in the lug area and ensure uniform full circumferential sealing. Bolts and nuts are Type 304 stainless steel, coated to prevent galling.

#### Material Specifications

<b>Band:</b>	Stainless Steel Type 304
<b>Lugs:</b>	CF8 austenetic cast stainless steel (304 Equivalent).
<b>Gasket:</b>	Nitrile (Buna N). Specially compounded NBR rubber to resist oil, acids alkalies, most (aliphatic) hydro-carbon fluids, water and many chemicals. Nominal temperature range from -20°F to 180°F. Consult manufacturer for specific applications or other service temperatures.
<b>Bridge Plate:</b>	Type 304 Stainless Steel recessed flush and bonded into gasket.
<b>Bolts &amp; Nuts:</b>	Type 304 Stainless Steel with rolled threads. The Stainless steel nuts and bolts are fluoro-polymer coated to prevent galling.

*Material specifications are subject to change.*

Band Width Inches	Number of Bolts	Bolt Sizes
7 1/2	2	Thru 5" nominal O.D. - 1/2" x 7" Over 6" nominal O.D. - 5/8" x 6 7/8"
15	4	
22 1/2	6	

Standard				Catalog Number	Metric			
Nom. Size Inches	O.D. Range Inches	Width Inches	Wt. Each Lbs.		Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
3	3.49-4.29	7 1/2	14.9	259-035007-000	80	88-108	190	6.8
		15	29.8	259-035015-000			381	13.5
		22 1/2	44.6	259-035022-000			572	20.2
4	4.44-5.24	7 1/2	14.9	259-045007-000	100	113-133	190	6.8
		15	29.8	259-045015-000			381	13.5
		22 1/2	44.6	259-045022-000			572	20.2
6	6.56-7.36	7 1/2	16.0	259-066307-000	150	167-186	190	7.3
		15	32.0	259-066315-000			381	14.5
		22 1/2	48.0	259-066322-000			572	21.8
8	8.54-9.34	7 1/2	20.2	259-086307-000	200	217-237	190	9.2
		15	40.4	259-086315-000			381	18.3
		22 1/2	60.6	259-086322-000			572	27.5
10	10.64-11.44	7 1/2	22.2	259-107507-000	250	271-290	190	10.1
		15	44.4	259-107515-000			381	20.1
		22 1/2	66.6	259-107522-000			572	30.2
12	12.62-13.42	7 1/2	22.2	259-127507-000	300	321-340	190	10.1
		15	44.4	259-127515-000			381	20.1
		22 1/2	66.6	259-127522-000			572	30.2
14	13.65-14.45	7 1/2	24.2	259-136507-000	350	347-367	190	11.0
		15	48.4	259-136515-000			381	22.0
		22 1/2	72.6	259-136522-000			572	32.9
16	15.92-16.72	7 1/2	25.9	259-159207-000	400	405-424	190	11.7
		15	47.9	259-159215-000			381	21.7
		22 1/2	71.5	259-159222-000			572	32.4

**NOTE:** NOT recommended for PE pipe applications.