



234 Tapped Full Circle® Repair Clamp Single Band



Smith-Blair 234 Single Band Tapped Full Circle® Repair Clamps provide a fast, economical means of repairing a damaged pipe at broken or torn out service connections or branch lines. The repairs can be made and the service connection or branch line restored in one operation. The 234 Clamps can also be used for new installations of service connections or branch lines.

The stainless steel outlet is welded to the band and is available with NPT, threads. O.D. ranges are designed to fit cast iron, steel and most other types of pipe. The clamps have a built-in O.D. range enabling each clamp to fit several pipe outside diameters.

Full Circle® Repair Clamps feature a lap type gasket with molded tapered ends to provide efficient equalized sealing at the lap joint on any pipe within the clamp's range. The gasket has a finely grided surface with resilience to easily conform to irregularities on rough pipe surfaces or in pitted areas, providing an effective seal all around the pipe.

A stainless steel bridge plate spans the opening of the lugs and is bonded flush into the gasket to prevent wrinkling in the lug area, providing even gasket pressure at all points around the full circumference of the pipe.

The band is made of stainless steel, selected to meet necessary corrosion resistance, flexibility and strength requirements. Lugs are securely attached to the stainless steel band, and have mutually supporting stabilizing fingers to permit maximum torquing of the bolts. The lug design includes a drop-in bolt feature that eliminates loose parts, saves time and aids installation under adverse conditions.

The bolts and nuts are low alloy steel with rolled threads, double radius heads and a generous shoulder to prevent bolt rotation under maximum torque loading.

Material Specifications

Band: Stainless Steel Type 304

Lugs: Ductile Iron ASTM A536, 65-45-12.

Gasket: Nitrile (Buna N). Specially compounded NBR rubber to resist oil, acids alkalis, 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.

Bridge Plate: Stainless steel recessed flush and bonded into gasket.

Bolts: High strength low-alloy steel (ANSI A21.11) with heavy semi-finished hexagon nuts ASTM A563. Optional 304 stainless steel bolts with fluoropolymer coated nuts to prevent galling.

Material specifications are subject to change.

Band Width Inches	Number of Bolts	Bolt Sizes
7 1/2	3	5/8" x 6"
12 1/2	5	

3/4" and 1" NPT Taps - Low Alloy Bolts and Nuts

Standard				Catalog Number		Metric			
Nom. Size Inches	O.D. Range Inches	Width Inches	Wt. Each Lbs.	3/4" NPT/20 MM	1" NPT/25 MM	Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
3	3.46-3.70	7 1/2	10.2	234-035007-006	234-035007-008	80	88-93	190	4.6
	3.46-3.70	12 1/2	17.3	234-035012-006	234-035012-008		88-93	317	7.8
	3.73-4.00	7 1/2	10.2	234-037507-006	234-037507-008		95-101	190	4.6
	3.73-4.00	12 1/2	16.5	234-037512-006	234-037512-008		95-101	317	7.5
	3.96-4.25	7 1/2	10.2	234-040007-006	234-040007-008		101-107	190	4.6
	3.96-4.25	12 1/2	16.2	234-040012-006	234-040012-008		101-107	317	7.3
4	4.45-4.73	7 1/2	11.4	234-045007-006	234-045007-008	100	114-120	190	5.2
	4.45-4.73	12 1/2	18.2	234-045012-006	234-045012-008		114-120	317	8.3
	4.74-5.14	7 1/2	10.7	234-048007-006	234-048007-008		121-130	190	4.9
	4.74-5.14	12 1/2	18.0	234-048012-006	234-048012-008		121-130	317	8.2
6	6.56-6.96	7 1/2	13.6	234-066307-006	234-066307-008	150	167-176	190	6.2
	6.56-6.96	12 1/2	21.3	234-066312-006	234-066312-008		167-176	317	9.7
	6.84-7.24	7 1/2	11.9	234-069007-006	234-069007-008		174-183	190	5.4
	6.84-7.24	12 1/2	19.2	234-069012-006	234-069012-008		174-183	317	8.7
8	8.54-8.94	7 1/2	13.2	234-086307-006	234-086307-008	200	217-227	190	6.0
	8.54-8.94	12 1/2	21.4	234-086312-006	234-086312-008		217-227	317	9.7
	8.99-9.39	7 1/2	13.2	234-090507-006	234-090507-008		229-238	190	6.0
	8.99-9.39	12 1/2	21.4	234-090512-006	234-090512-008		229-238	317	9.7

NOTE: NOT recommended for PE pipe applications.



234 Tapped Full Circle® Repair Clamp Single Band



1 1/4", 1 1/2" and 2" NPT Taps - Low Alloy Bolts and Nuts

Standard				Catalog Number			Metric			
Nom. Size Inches	O.D. Range Inches	Width Inches	Wt. Each Lbs.	1 1/4" NPT/32 MM	1 1/2" NPT/40 MM	2" NPT/50 MM	Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
				4	4.45-4.73 4.74-5.14	12 1/2 12 1/2				
6	6.56-6.96 6.84-7.24	12 1/2 12 1/2	19.2 19.2	234-066312-010 234-069012-010	234-066312-012 234-069012-012	234-066312-014 234-069012-014	150 200	174-183 217-227	317 317	8.7 8.7
8	8.54-8.94 8.99-9.39	12 1/2 12 1/2	21.4 21.4	234-086312-010 234-090512-010	234-086312-012 234-090512-012	234-086312-014 234-090512-014	200 200	229-238 229-238	317 317	9.7 9.7

NOTE: NOT recommended for PE pipe applications.

235 Tapped Full Circle® Repair Clamp Super Range Double Band



Smith-Blair 235 Double Tapped Full Circle® Repair Clamps provide a fast, economical means of repairing a damaged or broken pipe at broken or torn out service connections, or branch lines. The repairs can be made and the service connection or branch line restored in one operation. The clamps can also be used for new installations of service connections or branch lines.

The stainless steel outlet is welded to the band and is available with NPT threads. The double band configuration enables the clamp to have a greater size range than single band clamps. A single clamp will fit a variety of the types and classes of pipe in each nominal pipe size, 4 inch through 12 inch.

Full Circle® Repair Clamps feature a lap type gasket with molded tapered ends to provide efficient equalized sealing at the lap joint on any pipe within the clamp's range. The gasket has a finely gridded surface with the resilience to easily conform to irregularities on rough pipe surfaces or pitted areas, providing an effective seal all around the pipe.

A stainless steel bridge plate spans the opening of the lugs and is bonded flush into the gasket to prevent wrinkling in the lug area, providing even gasket pressure at all points around the full circumference of the pipe.

The band is made of stainless steel, selected to meet the necessary corrosion resistance, flexibility and strength requirements. Lugs are securely attached to the stainless steel band and have mutually supporting stabilizing fingers to permit maximum torquing of the bolts. The lug design includes a drop-in bolt feature that eliminates loose parts, saves time and aids installation under adverse conditions.

The bolts and nuts are low alloy steel with rolled threads, double radius heads and a generous shoulder to prevent bolt rotation under maximum torque loading.

Material Specifications

Band:	Stainless Steel Type 304
Lugs:	Ductile Iron ASTM A536, 65-45-12.
Gasket:	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.
Bridge Plate:	Stainless steel recessed flush and bonded into gasket.
Bolts:	High strength low-alloy steel (ANSI A21.11) with heavy semi-finished hexagon nuts ASTM A563. Optional 304 stainless steel bolts with fluoropolymer coated nuts to prevent galling.

Material specifications are subject to change.

Band Width Inches	Number of Bolts	Bolt Sizes
7 1/2	6	Drop-in lug 5/8" x 6"
12 1/2	10	Closed lug 5/8" x 6 7/8"