



225 Full Circle® Repair Clamp Single Band



Smith-Blair 225 Single Band Full Circle® Repair Clamps provide a fast, economical means of repairing breaks, holes, cracks or other type of damage. The clamps are made for cast iron, steel and other types of pipe and have a built-in O.D. range enabling each clamp to fit several pipe outside diameters within a nominal pipe size range.

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 the resilience to easily conform to irregularities on rough pipe surface 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 an 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 with heavy semi-finished hexagon nuts Per ANSI B.18.2.2. 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"
10	4	
12 1/2	5	
15	6	
20	8	
30	12	

Standard				Catalog Number		Metric			
Nom. Size Inches	O.D. Ranges Inches	Width Inches	Wt. Each Lbs.	With Low Alloy Bolts & Nuts	With Stainless Steel Bolts & Nuts	Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
2	2.25-2.50	7 1/2	8.4	225-10022507-000	225-10022507-001	50	58-63	190	3.8
		10	11.5	225-10022510-000	225-10022510-001			254	5.2
		12 1/2	14.1	225-10022512-000	225-10022512-001			317	6.4
		15	17.3	225-10022515-000	225-10022515-001			381	7.8
2	2.35-2.63	7 1/2	8.8	225-10023807-000	225-10023807-001	50	60-66	190	4.0
		10	11.8	225-10023810-000	225-10023810-001			254	5.4
		12 1/2	14.6	225-10023812-000	225-10023812-001			317	6.6
		15	17.5	225-10023815-000	225-10023815-001			381	7.9
2 1/2	2.70-3.00	7 1/2	8.8	225-10027507-000	225-10027507-001	65	69-76	190	4.0
		10	11.8	225-10027510-000	225-10027510-001			254	5.4
		12 1/2	14.6	225-10027512-000	225-10027512-001			317	6.6
		15	17.5	225-10027515-000	225-10027515-001			381	7.9
3	3.36-3.60	7 1/2	9.2	225-10033607-000	225-10033607-001	80	86-91	190	4.2
		10	12.4	225-10033610-000	225-10033610-001			254	5.6
		12 1/2	15.3	225-10033612-000	225-10033612-001			317	6.9
		15	18.1	225-10033615-000	225-10033615-001			381	8.2
3	3.46-3.70	7 1/2	9.2	225-10035007-000	225-10035007-001	80	88-93	190	4.2
		10	12.4	225-10035010-000	225-10035010-001			254	5.6
		12 1/2	15.3	225-10035012-000	225-10035012-001			317	6.9
		15	18.1	225-10035015-000	225-10035015-001			381	8.2
3	3.73-4.00	7 1/2	9.2	225-10037507-000	225-10037507-001	80	95-101	190	4.2
		10	12.4	225-10037510-000	225-10037510-001			254	5.6
		12 1/2	15.3	225-10037512-000	225-10037512-001			317	6.9
		15	18.1	225-10037515-000	225-10037515-001			381	8.2
4	4.32-4.60	7 1/2	9.2	225-10043207-000	225-10043207-001	100	110-116	190	4.2
		10	12.4	225-10043210-000	225-10043210-001			254	5.6
		12 1/2	15.3	225-10043212-000	225-10043212-001			317	6.9
		15	18.1	225-10043215-000	225-10043215-001			381	8.2



225 Full Circle® Repair Clamp

Single Band



Standard				Catalog Number		Metric			
Nom. Size Inches	O.D. Range Inches	Width Inches	Wt. Each Lbs.	With Low Alloy Bolts & Nuts	With Stainless Steel Bolts & Nuts	Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
4	4.45-4.73	7 1/2	9.6	225-10045007-000	225-10045007-001	100	114-120	190	4.4
		10	13.0	225-10045010-000	225-10045010-001			254	5.9
		12 1/2	15.9	225-10045012-000	225-10045012-001			317	7.2
		15	18.9	225-10045015-000	225-10045015-001			381	8.6
4	4.74-5.14	7 1/2	10.5	225-10048007-000	225-10048007-001	100	121-130	190	4.8
		10	14.5	225-10048010-000	225-10048010-001			254	6.6
		12 1/2	17.5	225-10048012-000	225-10048012-001			317	8.0
		15	20.8	225-10048015-000	225-10048015-001			381	9.4
		20	27.9	225-10048020-000	225-10048020-001			508	12.7
		30	41.2	225-10048030-000	225-10048030-001			762	18.7
6	6.40-6.80	7 1/2	11.6	225-10064007-000	225-10064007-001	150	152-161	190	5.3
		10	15.6	225-10064010-000	225-10064010-001			254	7.1
		12 1/2	19.2	225-10064012-000	225-10064012-001			317	8.7
		15	22.6	225-10064015-000	225-10064015-001			381	10.3
		20	30.6	225-10064020-000	225-10064020-001			508	13.9
		30	44.7	225-10064030-000	225-10064030-001			762	20.3
6	6.56-6.96	7 1/2	11.6	225-10066307-000	225-10066307-001	150	167-176	190	5.3
		10	15.6	225-10066310-000	225-10066310-001			254	7.1
		12 1/2	19.2	225-10066312-000	225-10066312-001			317	8.7
		15	22.6	225-10066315-000	225-10066315-001			381	10.3
		20	30.6	225-10066320-000	225-10066320-001			508	13.9
		30	44.7	225-10066330-000	225-10066330-001			762	20.3
6	6.84-7.24	7 1/2	11.6	225-10069007-000	225-10069007-001	150	174-183	190	5.3
		10	15.6	225-10069010-000	225-10069010-001			254	7.1
		12 1/2	19.3	225-10069012-000	225-10069012-001			317	8.7
		15	22.9	225-10069015-000	225-10069015-001			381	10.3
		20	30.5	225-10069020-000	225-10069020-001			508	13.9
		30	45.7	225-10069030-000	225-10069030-001			762	20.3
8	8.38-8.78	7 1/2	13.3	225-10083807-000	225-10083807-001	200	213-223	190	6.0
		10	17.2	225-10083810-000	225-10083810-001			254	7.8
		12 1/2	20.8	225-10083812-000	225-10083812-001			317	9.4
		15	24.7	225-10083815-000	225-10083815-001			381	11.2
		20	33.6	225-10083820-000	225-10083820-001			508	15.2
		30	50.4	225-10083830-000	225-10083830-001			762	22.9
8	8.54-8.94	7 1/2	13.3	225-10086307-000	225-10086307-001	200	217-227	190	6.0
		10	17.2	225-10086310-000	225-10086310-001			254	7.8
		12 1/2	20.8	225-10086312-000	225-10086312-001			317	9.4
		15	24.7	225-10086315-000	225-10086315-001			381	11.2
		20	33.6	225-10086320-000	225-10086320-001			508	15.2
		30	50.4	225-10086330-000	225-10086330-001			762	22.9
8	8.99-9.39	7 1/2	13.3	225-10090507-000	225-10090507-001	200	229-238	190	6.0
		10	17.3	225-10090510-000	225-10090510-001			254	7.8
		12 1/2	21.3	225-10090512-000	225-10090512-001			317	9.7
		15	25.3	225-10090515-000	225-10090515-001			381	11.5
		20	34.6	225-10090520-000	225-10090520-001			508	15.7
		30	50.4	225-10090530-000	225-10090530-001			762	22.9
10	10.60-11.00	7 1/2	13.5	225-10106007-000	225-10106007-001	250	270-279	190	6.1
		10	17.4	225-10106010-000	225-10106010-001			254	7.9
		12 1/2	22.1	225-10106012-000	225-10106012-001			317	10.0
		15	26.2	225-10106015-000	225-10106015-001			381	11.9
		20	34.8	225-10106020-000	225-10106020-001			508	15.8
		30	52.2	225-10106030-000	225-10106030-001			762	23.7
10	10.64-11.04	7 1/2	13.9	225-10107507-000	225-10107507-001	250	271-280	190	6.3
		10	18.9	225-10107510-000	225-10107510-001			254	8.6
		12 1/2	23.0	225-10107512-000	225-10107512-001			317	10.4
		15	26.7	225-10107515-000	225-10107515-001			381	12.1
		20	35.9	225-10107520-000	225-10107520-001			508	16.3
		30	54.2	225-10107530-000	225-10107530-001			762	24.6

NOTE: NOT recommended for PE pipe applications.
For polywrap kit see page 11.



225 Full Circle® Repair Clamp Single Band



Standard				Catalog Number		Metric			
Nom. Size Inches	O.D. Range Inches	Width Inches	Wt. Each Lbs.	With Low Alloy Bolts & Nuts	With Stainless Steel Bolts & Nuts	Nom. Size MM	O.D. Range MM	Width MM	Wt. Each Kg.
10	11.04-11.44	7 1/2	14.0	225-10111007-000	225-10111007-001	250	281-290	190	6.4
		10	18.7	225-10111010-000	225-10111010-001			254	8.5
		12 1/2	22.9	225-10111012-000	225-10111012-001			317	10.4
		15	27.6	225-10111015-000	225-10111015-001			381	12.5
		20	36.6	225-10111020-000	225-10111020-001			508	16.6
		30	54.9	225-10111030-000	225-10111030-001			762	24.9
12	12.60-13.00	7 1/2	15.6	225-10126007-000	225-10126007-001	300	321-330	190	7.7
		10	20.2	225-10126010-000	225-10126010-001			254	9.2
		12 1/2	24.9	225-10126012-000	225-10126012-001			317	11.3
		15	28.9	225-10126015-000	225-10126015-001			381	13.1
		20	39.8	225-10126020-000	225-10126020-001			508	18.1
		30	59.7	225-10126030-000	225-10126030-001			762	27.1
12	13.10-13.50	7 1/2	16.6	225-10132007-000	225-10132007-001	300	333-342	190	7.5
		10	20.7	225-10132010-000	225-10132010-001			254	9.4
		12 1/2	25.3	225-10132012-000	225-10132012-001			317	11.5
		15	29.1	225-10132015-000	225-10132015-001			381	13.2
		20	40.4	225-10132020-000	225-10132020-001			508	18.3
		30	60.6	225-10132030-000	225-10132030-001			762	27.5
14	14.00-14.40	7 1/2	18.8	225-10140007-000	225-10140007-001	300	356-365	190	8.5
		10	23.1	225-10140010-000	225-10140010-001			254	10.5
		12 1/2	28.9	225-10140012-000	225-10140012-001			317	13.1
		15	34.7	225-10140015-000	225-10140015-001			381	15.7
		20	46.2	225-10140020-000	225-10140020-001			508	21.0
		30	69.3	225-10140030-000	225-10140030-001			762	31.4

225 Full Circle® Repair Clamp Double Band



Smith-Blair 225 Super Range Double Band Full Circle® Repair Clamps provide a fast, economical means of repairing holes, cracks or other types of damage to cast iron, steel and other types of pipe.

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 the 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 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 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 with heavy semi-finished hexagon nuts Per 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	
10	8	Drop-in lug
12 1/2	10	5/8" x 6"
15	12	Closed lug
20	16	5/8" x 6 7/8"
30	24	