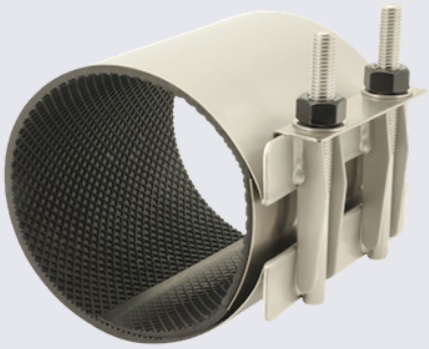
BLACK PAW®



PRODUCT DATA SHEET PIPE REPAIR CLAMP STAINLESS STEEL

Complies with AS 4181-2013, Q/DZH 0001-2015, MSS SP-58, SP-69/SP-89 Standards

The Stainless Steel Pipe Repair Clamp is a high-integrity, corrosion-resistant clamp designed for the quick and permanent sealing of leaks on pressurized pipelines. Suitable for use in oil refineries, petrochemical plants, and process industries, this clamp provides a safe, durable, and maintenance-free solution for repairing pinholes, corrosion damage, and longitudinal or circumferential cracks without the need for pipeline shutdown.

Whether for industrial, municipal, or residential applications, the CR Series delivers a fast, secure, and long-lasting repair—when downtime is not an option.

1. TECHNICAL SPECIFICATION

Product Name: Full Circle Stainless Steel Pipe Repair Clamp
Material: Stainless Steel AISI 304 or 316L NBR (Nitrile Butadiene Rubber)
Color: Silver
Standards: AS 4181-2013, Q/DZH 0001-2015, MSS SP-58 & SP-69/SP-89

2. TYPICAL PROPERTIES

Clamp Body Material	Stainless Steel AISI 304 or 316L
Sealing Material	NBR (Nitrile Butadiene Rubber), oil-resistant
Temperature Range	–20°C to +100°C (continuous), up to 120°C (short-term)
Pressure Rating	Up to 16 bar (232 psi), depending on pipe size and wall thickness
Pipe Compatibility	Carbon Steel, Stainless Steel, Ductile Iron, PVC
Size Range	DN25 (1") to DN600 (24") and above (custom sizes available)

Clamp Width Options	75 mm, 100 mm, 150 mm, 200 mm, or custom
Rubber Hardness	70 ± 5 Shore A
Fasteners	Stainless Steel Bolts and Nuts (ASTM A193 B8/B8M & A194 8/8M)
Material Standards	ASTM A240 (Clamp Body), ASTM A312/A269 (Pipe Shell), ASTM D2000 (NBR Rubber)
Design Standards	AS 4181-2013, Q/DZH 0001-2015, MSS SP-58, SP-69/SP-89
Testing Standards	Hydrostatic Testing per ASME B31.3 and MSS SP-89

3. TYPICAL APPLICATIONS

Refinery pipeline maintenance
Hydrocarbon storage and transfer systems
Industrial process lines
Water and fire service mains
Offshore platform utility lines

4. FEATURES

Rapid installation without pipeline shutdown
Permanent and leak-tight repair for pressurized systems
Fully corrosion-resistant stainless steel design
NBR sealing for compatibility with crude oil, diesel, and lubricants
Brushed or passivated stainless steel finish
Available in single or multi-band versions for larger diameters
Tapered ends for smooth stress distribution on pipe surface
Suitable for both aboveground and buried pipelines

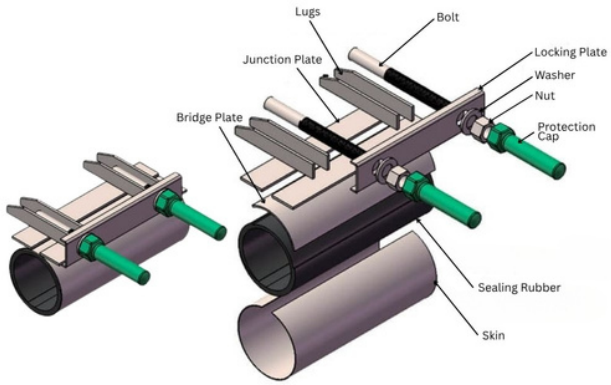
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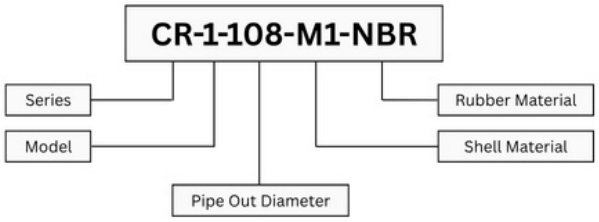
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Complies with AS 4181-2013, Q/DZH 0001-2015, MSS SP-58, SP-69/SP-89 Standards

5. DIAGRAM





6. SIZE & PRESSURE RATING TABLE

O.D. Range (mm)	Working Pressure bar	O.D. Range (mm)	Working Pressure bar	O.D. Range (mm)	Working Pressure bar	Length (mm)
CR-1	PN	CR-2	PN	CR-3	PN	W
59-67	16					150-600
86-94	16					150-600
108-118	16	88-108	16			150-2000
159-170	16	108-128	16			150-2000
218-228	16	238-258	16			150-2000
219-229	8	335-356	10			150-2000
252-263	10	421-440	16			150-2000
271-281	10	421-440	10			150-2000
315-325	12	453-472	10			150-2000
321-331	10	562-581	8	630-660	8	150-2000
333-343	10	582-601	8	670-700	8	150-2000
356-366	10	720-740	8	820-850	6	150-2000

Additional sizes available upon request