

**TOTAL PIPING SOLUTIONS, INC.**

**Quick Cam<sup>®</sup>**

**Rapid Seal Repair Clamp**

Patent Pending

**Technical Specifications**

Rev B  
July 2017

# Quick Cam® Rapid Seal Repair Clamp Specifications

Patent Pending

1. Pressure Rating: Quick Cam® Rapid Seal Repair Clamps by Total Piping Solutions, Inc. when properly installed are capable of working pressures up to 200 psi for water applications and 125 psi for gas applications.  
  
Quick Cam® Rapid Seal Repair Clamps are tested up to 300 psi for water and up to 190 psi for Gas (1.5 Safety Factor)  
  
Note: Pressure rating shall not exceed the pressure rating of the pipe on which the repair clamp is installed. For any particular installation, the allowable working pressure will be determined by the size of pipe, type of pipe, condition of the pipe, service conditions, environmental conditions, and installation workmanship. Always consult the factory for specific information regarding application and working pressure.
2. Temperature Rating: Maximum Continuous Working Temperature Range is 180° F for Standard NSF-61 compliant NBR Gasket
3. Sealing Gasket: ANSI/NSF- 61 Approved NBR Rubber – For water, sewer, natural gas and other petroleum based line content
4. Band:  
18-8 Stainless Steel  
3 to 6 inch diameters – 20 gage (.036”) thickness  
Available nominal clamp lengths: 9”, 12”, 15”, 24”, 30”  
  
8 inch diameters – 18 gage (.048”) thickness  
Available nominal clamp lengths: 12”, 15”, 24”, 30”  
  
10-12 inch diameters – 14 gage (.075”) thickness  
Available nominal clamp lengths: 12”, 15”, 24”, 30”  
  
14-30 inch diameters – 14 gage (.075”) thickness  
Available nominal clamp lengths: 15”, 24”, 30”
5. Alignment Lugs: ASTM A351 CF8 (18-8) Cast Stainless Steel (Passivated for corrosion resistance) or Optional E-Coated ASTM A536 65-45-12 Cast Ductile Iron
6. Mains Pipe : TPS Quick Cam® Rapid Seal Repair Clamps are designed for use with Steel, Cast Iron, Ductile Iron, PVC, High Density Polyethylene (SDR 17 or Thicker), Asbestos Cement conductor pipe materials.

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## Quick Cam® Rapid Seal Repair Clamp Benefits

1. No special tools required to install the clamp.
2. Provides a 360° Seal on common pipe materials including: Steel, Ductile Iron, Cast Iron, PVC, AC, and HDPE
3. Patent-pending Gasket design featuring a multi O-Ring seal bead system with a deep waffled mat type seal.
4. Unique Patent Pending extended Cam Lug system provides a maximum of 0.9 in of diameter range for single panel clamps and up to 1.9” of diameter range for double panel saddles.
5. Patent Pending Cam Lug system includes built in handle for ease of installation.
6. Removable Lug system for installation in tight spaces.
7. Note: See Materials of Construction diagram for additional information.

## Quick Cam® Rapid Seal Repair Clamp Table of Pipeline Diameters

### Applicable Standards:

**ASTM A380-06** Standard Practice for Cleaning Descaling and Passivation of Stainless Steel Parts Equipment and Systems

**ASTM A967-05** Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts.

**ANSI/AWWA C230-11** Standard for Full Encirclement Repair Clamps

**NSF/ANSI STANDARD 61** - Drinking Water System Components

**ASTM D2000 - 12** Standard Classification System for Rubber Products.



**ASTM A351** Standard Specification for Grade 304 Stainless Steel

**ASTM A536** Standard Specification for Ductile Iron

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## Quick Cam® Rapid Seal Repair Clamp Table of Pipeline Diameters

Nominal Diameter	Lower Diameter	Upper Diameter	CTS	IPS	DIP	Pit Cast	AC100	AC150	AC200
2	2.35	2.63	2.63	2.38		2.50			
2-1/2	2.70	3.00		2.88					
3	3.42	4.26	4.13	3.50	3.96		3.95	4.13	4.18
4	4.45	5.13	5.13	4.50	4.80	5.00			
4 o.s.	4.74	5.61			4.80	5.00	5.26	5.32	5.57
5	5.50	6.20	6.13	5.56					5.57
6	6.55	7.42		6.63	6.90	7.10	7.40	7.37	
6 o.s.	6.84	7.65			6.90	7.10	7.40	7.37	7.60
8	8.54	9.44		8.63	9.05	9.30			
8 o.s.	8.98	9.84			9.05	9.30	9.57	9.62	9.79
10	10.64	11.46		10.75	11.10	11.40			
10 o.s.	11.34	12.16				11.40	11.77	12.12	12.12
12	12.62	13.56		12.75	13.20	13.50			
12 o.s.	13.65	14.42		14.00			14.04	14.38	14.38
  DOUBLE PANEL	14.75	16.24		16.00		15.30 15.65	15.36 15.80		
	15.87	17.37						16.22 16.73	16.44 16.88
	16.80	18.30		18.00	17.40	17.40 17.80	17.50 17.94		
	17.92	19.42						18.46 18.62	18.46 18.84
	18.86	20.35		20.00	19.50	19.50 19.92	19.90	18.97	19.19
	19.89	21.38					20.44	20.94 21.20	
	20.99	22.49			21.60	21.60 22.06	22.12	21.30	22.18
	21.87	23.36				22.06	22.12 22.68		22.18 22.54
	22.65	24.15						23.28 23.54	
	23.27	24.77		24.00					24.66
	24.94	26.43			25.80	25.80 26.32			25.02
	25.88	27.38				26.32	26.48 27.17		
  TRIPLE PANEL RANGES	27.45	29.70						27.96 28.32	
	29.03	31.28		30.00					29.62 29.98
	31.79	34.03			32.00				
	35.42	37.66		36.00					
	36.84	39.08			38.30				

### SEWER PIPE RANGES

4"	4.10	4.90
6"	6.20	7.00
8"	8.35	9.15
10"	10.35	11.18
12"	12.40	13.28

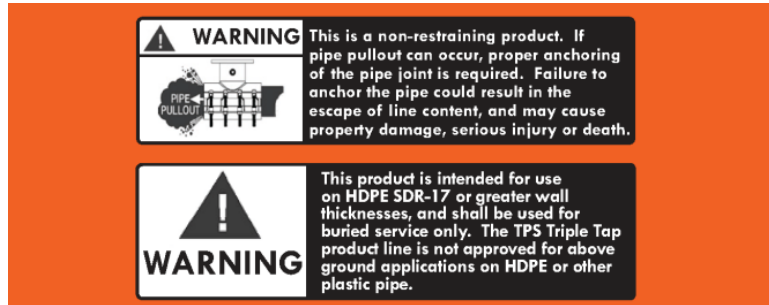
NOTE: CALL FACTORY FOR CLAMP SIZES NOT SHOWN ON THIS CHART

NOTE: PRESSURE RATING AND BOLT TORQUE SHOWN ON PRODUCT LABEL ARE ACTUAL RATING.

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## Product Warnings



**WARNING** This is a non-restraining product. If pipe pullout can occur, proper anchoring of the pipe joint is required. Failure to anchor the pipe could result in the escape of line content, and may cause property damage, serious injury or death.

**WARNING** This product is intended for use on HDPE SDR-17 or greater wall thicknesses, and shall be used for buried service only. The TPS Triple Tap product line is not approved for above ground applications on HDPE or other plastic pipe.

### **Bolt Torque:**

**Bolt Torque MUST NOT Exceed 80 Ft lbs for units with Ductile Iron Lugs**

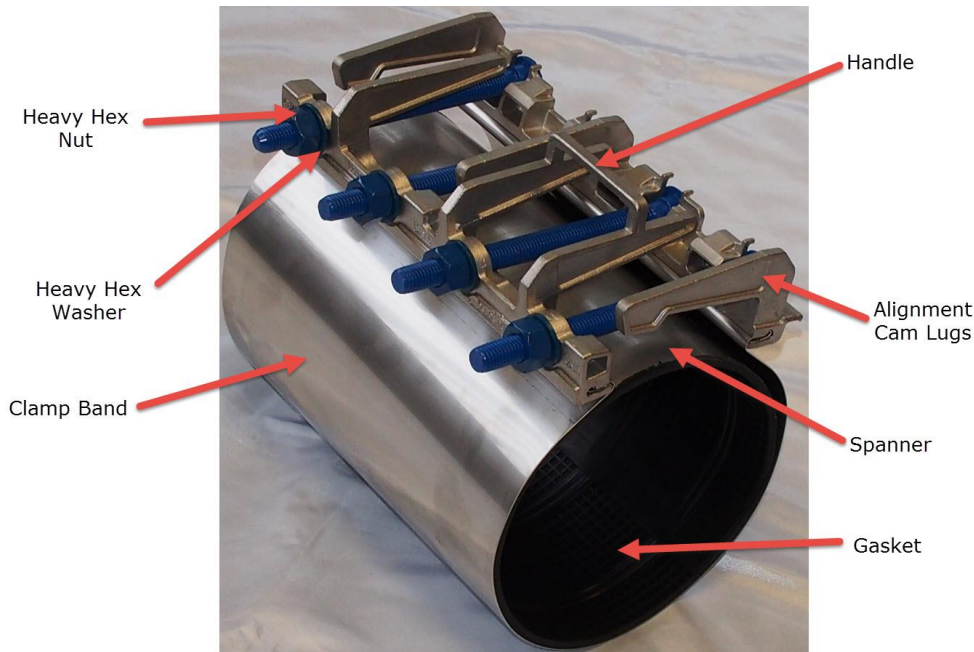
**See individual product labeling for unit specific torque ratings**

### **Clamp Reuse:**

**Repair Clamps must not be re-used until refurbished with new bolts and new gaskets at TPS.**

# Quick Cam® Rapid Seal Repair Clamp Specifications

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## Materials of Construction

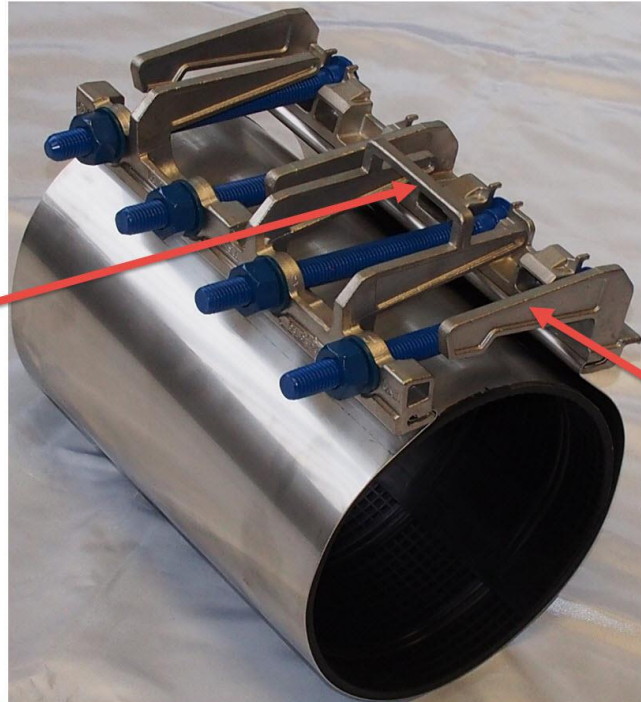
- Saddle Band:** 20, 18, or 14 Gage 18-8 Stainless Steel
- Alignment Cam Lugs:** ASTM A351 CF8 18-8 Stainless Steel or Optional Heavy Duty E-Coated Ductile Iron Grade ASTM A536 65-45-12
- Gaskets:** Material: Nitrile Butadiene Rubber (NBR) Approved NSF-61
- Spanner:** Heavy Duty 18-8 Stainless Steel
- Bolts:** Oval Neck trackhead per ANSI/ASME B18.10  
5/8-11 UNC Rolled Thread  
18-8 Type 304 Stainless Steel per ASTM A-193 Grade B8  
Finish: Double Fluoroelastomer coating.  
(Optional: High Strength Alloy Steel per ASTM A242)
- Nuts:** Heavy Hex Nut 5/8-11 UNC Rolled Thread  
Type 316 High Temp Stainless Steel per ASTM A-194 Grade 8  
Finish: Double Fluoroelastomer coated to prevent galling.  
(Optional: High Strength Alloy Steel per ASTM A242)
- Washers:** Heavy Duty 5/8 Inch Washer  
Material 18-8 Type 304 Stainless Steel  
Double Fluoroelastomer coated to prevent galling  
(Optional: High Strength Alloy Steel per ASTM A242)



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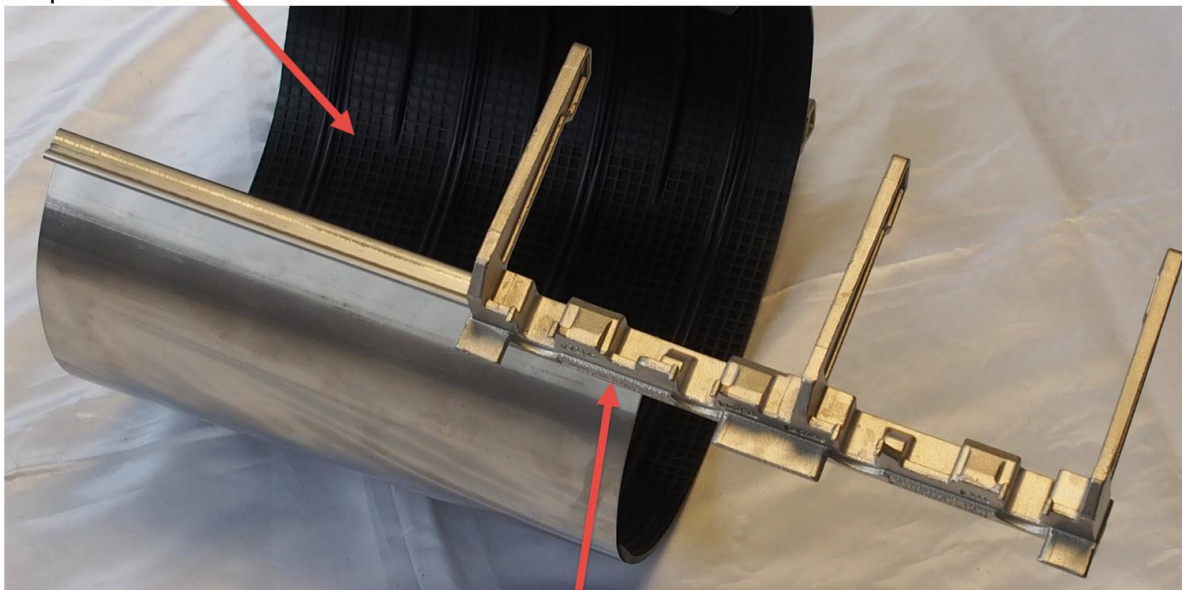
## Features



Integrated Handle and Finger Tab for Ease of Installation

Patent Pending Cam Lug Fingers for Extended Range and ease of Installation

Waffle Pattern Mat Gasket with Double 'O'-Ring Seal beads and special quick seal



Removable Lug for Ease of Installation in Tight Spaces