



Reliable Connections™

## Mini-Band™ Repair Clamps

### Installation Instructions

Clamp Style	210-221 Series	230-231 Series
Step 1	Clean pipe in area to be repaired. It should be free of loose dirt or deposits.	
Step 2	Lubricate pipe and inside of gasket-sleeve with soapy water. Use glycerin in temperatures below freezing.	
Step 3	Slip bolt heads out of lug slots and fit clamp on pipe centering the gasket over the damage area.	Remove gasket-sleeve from clamp assembly, open it up and place it around the pipe centered over the leak. If the leak is severe, put gasket-sleeve on pipe next to leak (make sure that area of pipe is also cleaned of loose dirt or deposits).
Step 4	Slip bolt head back into the lug slots.	Slide bolt head on clamp out of the slot, then place clamp over gasket-sleeve.
Step 5	Tighten nuts securely to stop leak (alternating between nuts to keep torque even, if more than one). 25 ft-lbs. for 3/8" bolts 35 ft-lbs. for 7/16" bolts	Position opening in strap so the notch in gasket-sleeve lines up with the opening in strap.
Step 6		Position assembled repair clamp over the center of the leak.
Step 7		Tighten nut(s) securely to stop leak - 25 ft-lbs. for 3/8" bolts 35 ft-lbs. for 7/16" bolts

(continued)

## Installation Instructions (*continued*)

Max Working Pressure	210-221 Series	230-231 Series
Water	<p><b>Maximum water working pressure</b> for properly installed clamps with nuts tightened to 500 inch-pounds torque:</p> <ul style="list-style-type: none"><li>1/2" - 4" 350 psig (2400 kPa/24 barg)</li><li>6" - 8" 200 psig (1375 kPa/13 barg)</li><li>10" - 12" 150 psig (1034 kPa/10 barg)</li><li>14" - 16" 100 psig (700 kPa/7 barg)</li><li>18" - 24" 60 psig (425 kPa/4 barg)</li></ul>	<p><b>Maximum water working pressure</b> for properly installed clamp at 150° F maximum working temperature:</p> <ul style="list-style-type: none"><li>150 psig (1025 kPa/10 barg) on steel or copper</li><li>60 psig (425 kPa/4 barg) on PVC</li></ul>
Gas	<p><b>Maximum gas working pressure</b> for properly installed clamps with nuts tightened to 500 inch-pounds torque:</p> <ul style="list-style-type: none"><li>1/2" - 4" 175 psig (1206 kPa/12 barg)</li><li>6" - 8" 100 psig (689 kPa/7 barg)</li><li>10" - 12" 75 psig (517 kPa/5 barg)</li><li>14" - 16" 50 psig (345 kPa/3 barg)</li><li>18" - 24" 30 psig (207 kPa/2 barg)</li></ul>	<p><b>Maximum gas working pressure</b> for properly installed clamp at 150° F maximum working temperature:</p> <ul style="list-style-type: none"><li>150 psig (1034 kPa) on steel or copper</li></ul>

**Water Customer Service - Phone: (800) 423-1323**

**Gas Customer Service - Phone: (800) 798-3131**

By deviating from the above listed instructions, you will void any product warranty and release Mueller Co. and its affiliated entities from any and all liability associated with the installation or use of this product.

For details on the product's warranty, terms, and conditions, please visit [www.muellercompany.com](http://www.muellercompany.com).

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