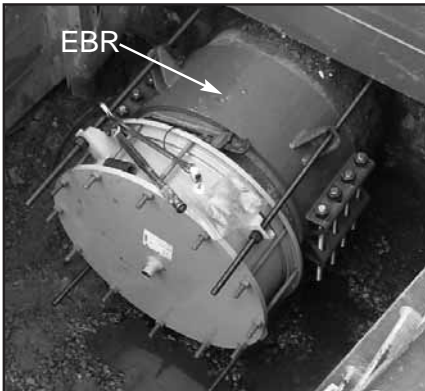
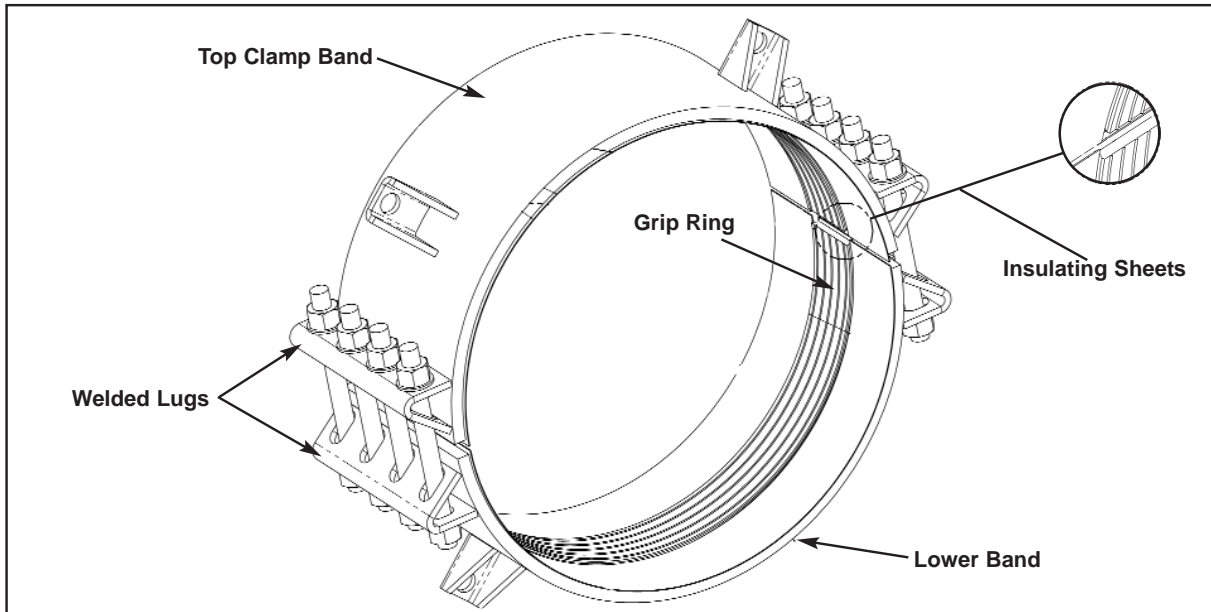




EBR Series Insulated Restraint for Gas Service



Material Specifications

BAND:	ASTM A285C
GRIP RING:	18-8 Type 304 Stainless Steel
INSULATING SHEETS:	Polypropylene sheets
STUDS:	High-strength, low alloy steel
NUTS:	ASTM A307 (ANSI A21.11)

Material specifications subject to change.

Seal and restraint couplings like Smith-Blair's Maxi-Grip EZ have been available for over 25-years but are only offered in sizes up to 8" cast iron. Although this offering covers most mainline sizes, there is still a substantial amount of 12" and larger cast iron pipe in service with no method available to restrain joints and dead ends.

Smith-Blair's EBR is an external restraint device developed for large diameter cast iron pipe as a safer alternative than thrust blocks for preventing pipe pull out.

To prevent internal pressure from dislodging seal only couplings or line (end) caps, the standard practice has been to install concrete thrust blocks. This can be problematic if a third party is excavating in the area and unknowingly destabilizes the soil around the thrust block. The EBR

alleviates this problem by using Maxi-Grip EZ restraining technology to grip the pipe. The EBR can resist forces generated by up to 60 PSIG line pressure and is available for up to 24" cast iron pipe.

The EBR is electrically insulated from the cast iron pipe, preventing dissimilar metal interactions and making more effective cathodic protection. A polypropylene liner secures the isolation of the carbon and stainless steel components from the cast iron pipe. The only part of the EBR in direct contact with the pipe is a set of stainless steel jaw bands designed to grip the pipe, preventing thrust movement.

Smith-Blair also offers line cap couplings with pre-welded lugs sets on the sleeve of the cap to match up to the EBR pattern. This eliminates the need for field welding and ensures the integrity of the epoxy coating.



Installation Instructions



1. Clean pipe 14" wide in area clamp to be installed. The pipe must be free of all mastic, coating, loose corrosion and contamination.
2. Position the top grip ring on the pipe.
3. Locate and position the top clamp band over the grip ring ensuring the grip ring is engaged in the cavity of the band.
4. Utilizing the outer studs/nuts only, raise the lower band with the grip ring in the band cavity. Only hand tighten the studs/nuts.
5. Check all components for proper position, gaps must be equal and aligned.
6. To ensure proper grip ring seating, pull/push the loosely positioned top and bottom bands toward the end of the pipe.
7. Install and tighten all clamping studs/nuts. Care must be taken to keep the gaps on both sides of the pipe equal.
8. Final torque for the clamp nuts is 120 ft-lbs min. 150 ft-lbs max. All fasteners must fall in this torque range.
10. Install the endcap/coupling to be attached to the EBR device using standard approved installation techniques. Be sure the lugs on the products are aligned within 2°.
11. Install all of the connecting rods through the lugs. (Finger tight only). After all rods are in place, the nuts on one end of each rod should be turned 1/2 of a turn past finger tight.

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