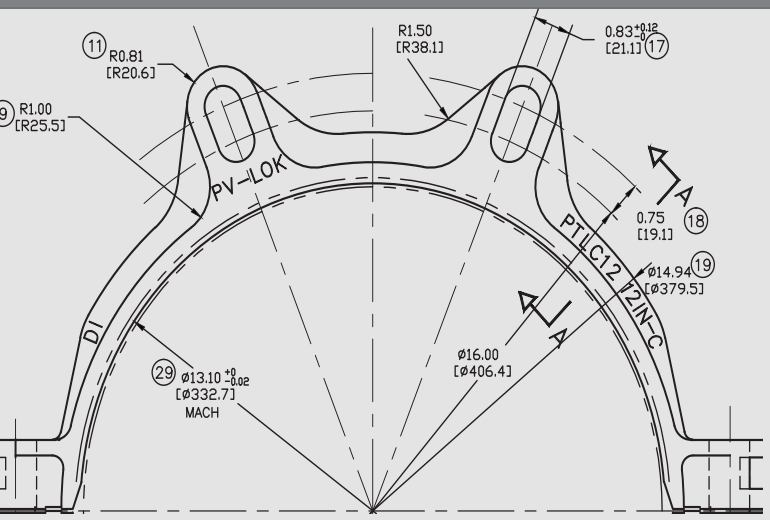
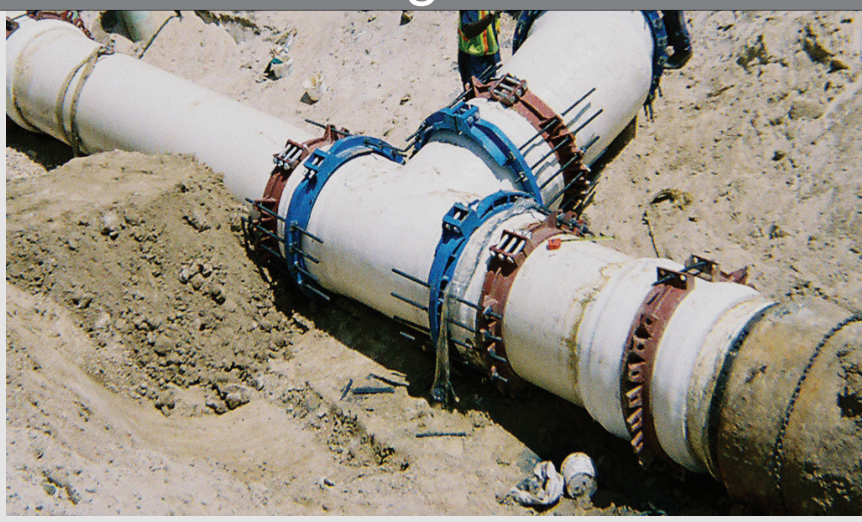
SIGMA™

Quality – Service – Commitment – Delivered.

PV-LOK™ Series PTPF for PVC Fitting Restraint





•Available with either standard shop coating or epoxy base coating.

Features & Advantages:

The PV-LOK™ Series PTPF restraining device incorporates a series of machined serrations that effectively engage PVC pipe walls to provide positive joint security and full support of the pipe wall. The serrated gripping action maximizes restraint during increased line pressures such as those resulting from surges and water hammers. The Series PTPF incorporates a PV-LOK clamping ring, restraining rods, and two piece beveled back up ring for the PVC fitting to provide the necessary joint restraint. The teeth are bi-directional on serrated clamping ring only.

Sample Specification:

Restraint devices for joining plain end PVC pipe to gasketed PVC pressure fittings shall consist of a split clamping ring that incorporates a series of machined serrations (not “as cast”), providing positive restraint, exact fit and full support of the pipe wall. Restraining rods and nuts shall connect the restrained pipe end to a two-piece, beveled backup ring that seats comfortably behind the PVC gasketed fitting bell. In applicable sizes, the interlocking ear or two piece design on the back-up ring shall provide tongue-and-groove seating to eliminate flexing under increased pressure and surges. In applicable sizes, the multi-part back-up ring shall utilize side clamping bolts to assemble behind the fitting bell. Devices shall carry a minimum 2:1 safety factor and meet or exceed the recognized testing standards for restrained joints on PVC pressure pipe and offer factory certification and independent test results. Restraint devices for joining PVC pipe to PVC gasketed pressure fittings shall be SIGMA PV-LOK™ Series PTPF or approved equal.

Material:

- Serrated Clamping Ring and beveled backup ring: ASTM A536 65-45-12 ductile iron.
- Side Clamping Bolts and Hex Nuts: ASTM A449 high strength steel, zinc-plated or Stainless Steel at customer request.
- Restraining Rods and Hex Nuts: High strength low alloy steel (AWWA/ANSI C111/A21.11) 45,000 psi yield / 60,000 psi tensile. Stainless Restraining Rods and Hex Nuts available at customer request.
- Coating is standard shop coat. Also available on request : CORRSAFE (A cationic epoxy base coating applied to the restrained joint product using a time tested electrodeposition process).

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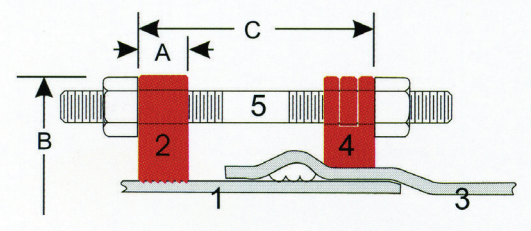

1. Plain-End PVC pipe
2. PV-LOK restrainer clamp
3. PVC fitting bell
4. PVPF beveled back-up ring
5. Restraining rod

Dimensions in Inches, Weights in Pounds:

Size	For PVC Pipe with DI Pipe OD	DI Pipe OD	A	B*	C (max)	Clamping Bolt Torque	Weight
	Item No.						
4	PTPF-C4	4.80	1.25	9.13	10	100	13.5
6	PTPF-C6	6.90	1.25	12.12	10	100	17.0
8	PTPF-C8	9.05	1.50	14.13	10	100	24.0
10	PTPF-C10	11.10	1.75	16.88	10	125	45.0
12	PTPF-C12	13.20	1.75	19.25	10	125	49.0

PV-LOK restrainers are rated with a working pressure equal to the PVC pipe upon which they are installed.

Installation Instructions:

1. Assemble the plain-end pvc pipe and the pvc pressure fitting per the pipe manufacturer's recommendations.

2. Install the non-serrated, two-piece interlocking ring set behind the gasketed bell of the pvc fitting. The bevel of this ring should face the end of the fitting, allowing the retainer ring to seat evenly against the fitting bell.

3. Insert the restrainer rods through the retainer ear back toward the pipe and mark a reference line approximately 2 inches in from the rod end. Install the serrated clamping ring at this mark. Tighten the side clamping bolts to recommended torque.

4. Insert the restrainer rods provided and snug the retaining nuts behind the ears on both the clamping ring and back-up ring and tighten approximately one turn with a wrench. Do not over-tighten retaining nuts.