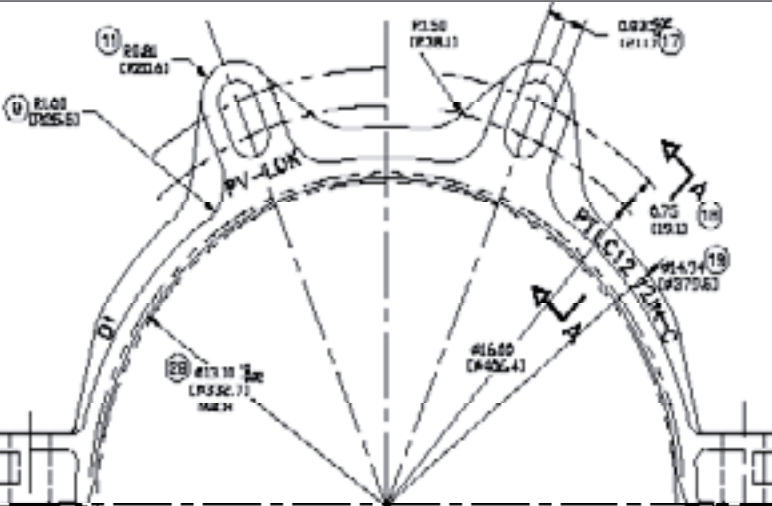


PV-LOK™ Series PTFE for PVC Fitting Restraint



Features & Advantages:

The PV-LOK™ Series PTFE 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 PTFE 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 PTFE or approved equal.

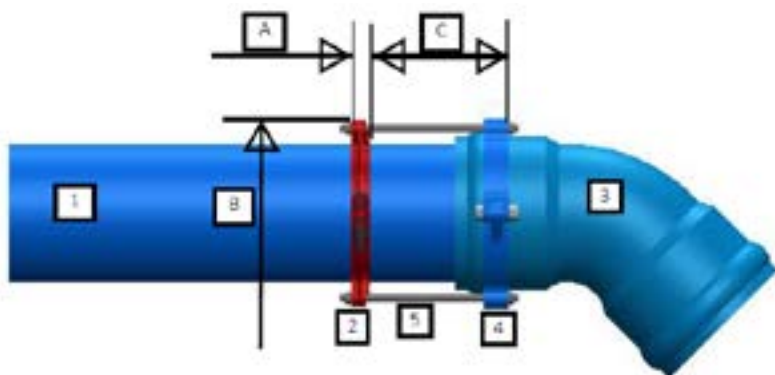


•Available with either standard shop coating or epoxy base coating.

Material:

- Serrated Clamping Ring and beveled backup ring: ASTM A536 65-45-12 Ductile Iron with standard coating or epoxy based e-coat.
- Side Clamping Bolts and Hex Nuts: ASTM A449 with high strength steel standard zinc-plated or Stainless Steel or Cor-Blue
- Restraining Rods and Hex Nuts: High strength low alloy steel (AWWA/ANSI C111/ A21.11) or Stainless Steel or Cor-Blue
- Epoxy based e-coat is called CORRSafe (A cationic epoxy base coating applied using a time tested electrodeposition process)
- Cor-Blue is Fluoropolymer fastner coating process

PV-LOK™ Series PTPF for PVC Fitting Restraint



1. Plain-End PVC Pipe
2. PV-LOK Restrainer Clamp-PT-C
3. PVC Fitting
4. PWWF Beveled Back Up Ring
5. Restraining Rod

Dimensions in Inches, Weights in Pounds:

Nominal Pipe Size	Part #	PVC Pipe OD	DIMENSIONS			BACK UP RING				
			A	B	C	PART #	QTY	CLAMPING BOLT SIZE	QTY	CLAMPING BOLT TORQUE
4	PTPF-C4	4.80	1.25	9.13	10.0	PWWF-C4R	1	NA	NA	NA
6	PTPF-C6	6.90	1.25	11.75	10.0	PWWF-C6R	1	NA	NA	NA
8	PTPF-C8	9.05	1.75	12.81	10.0	PWWF-C8R	1	NA	NA	NA
10	PTPF-C10	11.10	1.75	16.88	15.0	PWWF-C10R	1	3/4 x 3 1/4	2	125 ft-lbs
12	PTPF-C12	13.20	1.75	19.12	15.0	PWWF-C12R	1	3/4 x 3 1/4	2	125 ft-lbs

Nominal Pipe Size	PART #	QTY	SERRATED RING			HARDWARE						WEIGHT
			CLAMPING BOLT SIZE	QTY	CLAMPING BOLT TORQUE	RESTRAINING RODS SIZE	QTY	NUT SIZE	QTY	“Washer (D x L x W X T)”	QTY	
4	PW-C4	1	5/8 x 3 3/8	2	85 ft-lbs	3/4 x 12	2	3/4	4	NA	NA	13.5
6	PW-C6	1	5/8 x 3 3/8	2	85 ft-lbs	3/4 x 12	2	5/8	4	NA	NA	17.0
8	PW-C8	1	3/4 x 3 7/8	2	100 ft-lbs	3/4 x 12	2	5/8	4	NA	NA	24.0
10	PW-C10	1	7/8 x 4 3/8	2	125 ft-lbs	3/4 x 17	4	3/4	8	NA	NA	45.0
12	PW-C12	1	7/8 x 4 3/8	2	125 ft-lbs	3/4 x 17	4	3/4	8	NA	NA	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.