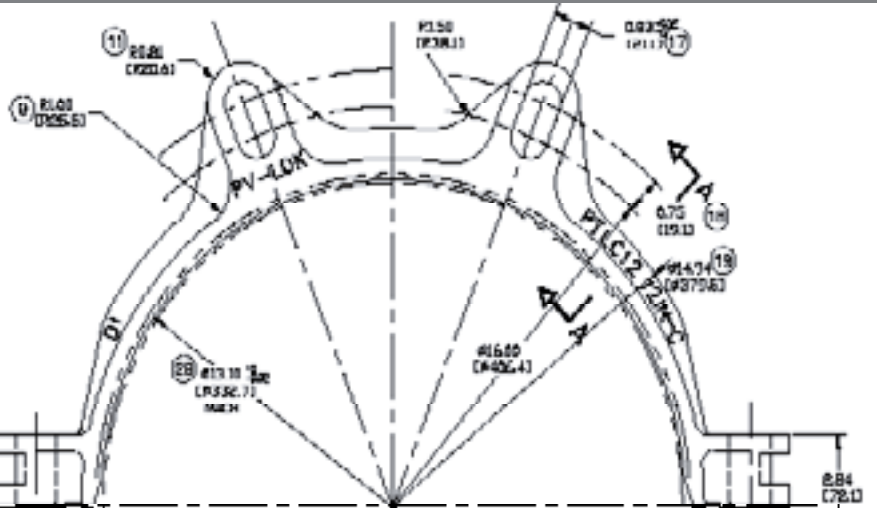


PV-LOK™ Series PTP for Bell Joint Restraint



Features & Advantages:

The PV-LOK™ Series PTP restraining device incorporates a series of machined and bi-directional 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 PTP incorporates two PV-LOK clamping rings and a series of restraining rods & nuts that tie the two rings together and secure the PVC bell and spigot pipe joint.



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

• Available with either standard steel or stainless steel hardware.

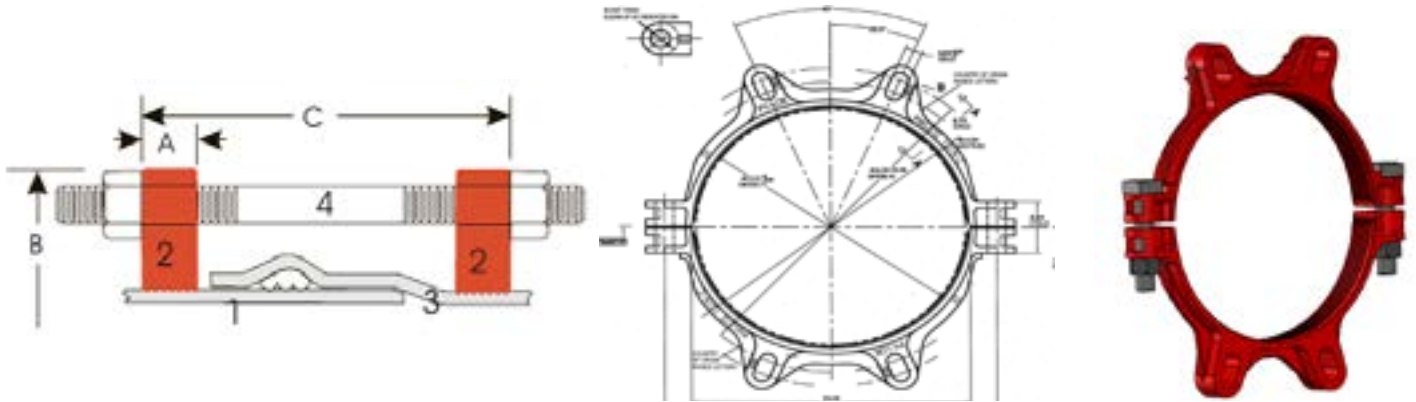
Sample Specification:

Restraint devices for bell and spigot joints of PVC pipe shall consist of two split retainer rings that incorporate a series of machined (not “as cast”) serrations. One clamping ring shall be installed on the spigot pipe, and with the necessary restraining rods and nuts, connected to a second clamping ring located on the pipe barrel immediately behind the gasketed bell. Restraint devices shall incorporate a series of machined serrations that provide positive restraint, exact fit and full support of the pipe wall. The restraint device shall provide the necessary bolts and nuts to complete the PVC pipe bell assembly. Devices shall carry a minimum 2:1 safety factor and meet or exceed the recognized testing for restrained joints on PVC pressure pipe and offer factory certification and independent test results. Restraint devices for securing PVC pipe bell assemblies shall be SIGMA PV-LOK™ Series PTP or approved equal.

Material:

- Serrated Clamping Ring: Ductile Iron 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 fastener coating process

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Dimensions in Inches, Weights in Pounds:

Pipe Size	Item #	PVC pipe with DI Pipe OD	A	B	C (max)	BCD		Restraining Rods		Nuts for Restraining Rods		Clamping Bolts			Weight
						Max	Min	No.	Size	No.	Size	No.	Size	Min Torque	
4	PTP-C4	4.8	1.2	9	13	7.5"	7.12"	2	3/4x15	4	3/4	4	5/8x3 3/8	85	14.4
6	PTP-C6	6.9	1.2	11.52	13	10.02"	9.26"	2	3/4x18	4	3/4	4	5/8x3 3/8	85	16.4
8	PTP-C8	9.05	1.75	12.81	13	12.5"	11.5"	2	3/4x18	4	3/4	4	3/4x3 7/8	100	27.0
10	PTP-C10	11.1	1.75	16.88	16	15.26"	13.76"	4	3/4x24	8	3/4	4	7/8x4 3/8	125	44.4
12	PTP-C12	13.2	1.75	19.12	22	17.5"	16.00"	4	3/4x24	8	3/4	4	7/8x4 3/8	125	50.6

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

*When calculating clearance for pipe in a casing, add a minimum of 1-1/2" to the "B" dimension above.

For use on ductile iron pipe, please contact SIGMA for recommendations.

Installation Instructions:

1. Assemble the plain-end pvc pipe into the pvc pipe bell per the pipe manufacturer's recommendations.
2. Assemble the one Series PTP clamping ring on the spigot pipe (approx. 2 inches behind the insertion) and the second ring immediately behind the pipe bell. Tighten the side clamping bolts to the recommended torque .
3. Insert the restrainer rods provided and snug the retaining nuts against the ears and tighten approximately one turn with a wrench. Do not over-tighten retaining nuts.