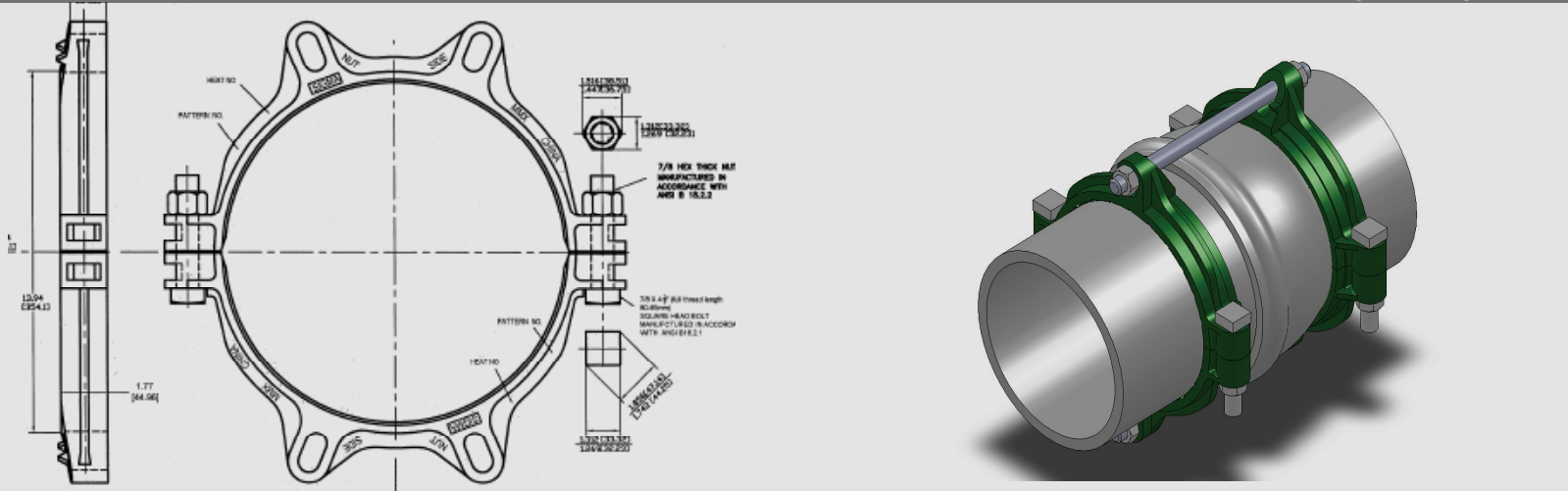
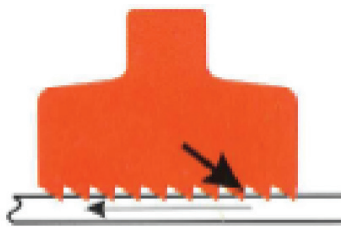


PV-LOK™ Series PVP for Bell Joint Restraint (IPS)



Features & Advantages:

The PV-LOK™ Series PVP restrainer incorporates a series of machined serrations that effectively engage PVC pipe walls, to provide positive joint security and full support of the pipe. The directional gripping action maximizes restraint during increased line pressures such as those resulting from surges and water hammers. The Series PVP 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.



Cross Section of PV-LOK illustrates directional grip of serrations to maximize restraint of PVC pipe.

Sample Specification:

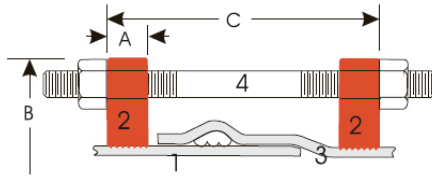
Restraint devices for bell and spigot joints of PVC pipe shall consist of two split retainer rings incorporated a series of machined (not “as cast”) serrations. One clamping ring shall be installed on the spigot pipe, and with the necessary restraining rods and nuts, connected to a second clamping ring 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 PVP or approved equal.



Material:

- Clamping ring is manufactured of high strength ductile iron in accordance with ASTM A536, grade 65-45-12.
- Side clamping bolt and hex nuts are high strength steel in accordance with ASTM A449 and zinc plated to B633, Type III Sc.1 for corrosion resistance.
- Restraining rods and hex nuts are of high strength, low alloy steel in accordance with AWWA/ANSI C111/A21.11 and provide a minimum 45,000 psi yield and 60,000 psi tensile strength.

PV-LOK™ Series PVP for Bell Joint Restraint (IPS)



1. Plain End Pipe
2. Restrainer Clamp
3. Bell End Pipe
4. Restraining Rod

Dimensions in Inches, Weights in Pounds:

Size	For PVC Pipe with IPS O.D.		A	B*	C (max)	Restraining Rods		Clamping Bolts			Weight
	Item No	Steel Pipe OD				No.	Size	No.	Size	Min. Torque	
2	PVP-S2	2.38	1.25	6.25	10.0	2	5/8x12	4	5/8x4	85	10
3	PVP-S3	3.50	1.25	7.69	10.0	2	5/8x12	4	5/8x4	85	12
4	PVP-S4	4.50	1.25	9.13	13.0	2	3/4x18	4	5/8x4	100	17
6	PVP-S6	6.63	1.25	12.12	13.0	2	3/4x18	4	5/8x4	100	21
8	PVP-S8	8.63	1.50	14.13	13.0	2	3/4x18	4	3/4x4-1/2	100	31
10	PVP-S10	10.75	1.75	16.88	16.0	4	3/4x24	4	7/8x5	125	51
12	PVP-S12	12.75	1.75	19.25	22.0	4	3/4x24	4	7/8x5	125	57

PV-LOK Products are rated with a working pressure equal to that of the PVC pipe to which they are applied.

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

Pressure Rating:

Nominal Pipe Size	Item #	Pressure Rating		
		ASTM D2241		
		SDR17	SDR21	SDR26
2	PVP-S2	250	200	160
3	PVP-S3	250	200	160
4	PVP-S4	250	200	160
6	PVP-S6	250	200	160
8	PVP-S8	250	200	160
10	PVP-S10	250	200	160
12	PVP-S12	250	200	160

NOTE: Contact SIGMA for availability of sizes 18-48"

Installation Instructions (4-12"):

1. Assemble plain-end PVC pipe into bell according to pipe manufacturer's recommendations.
2. Assemble the Series PVP clamping rings on the spigot pipe (approx. 2 inches behind the insertion mark on the pipe) and immediately behind the pipe bell end, making sure the protrusions on the restrainer ears face toward each other to insure proper direction of the angled serrations. Tighten the side clamping bolts to recommended torque.
3. Insert the restrainer rods provided and snug the retaining nuts against the restrainer ears (against the flat surface). Do not over-tighten retaining nuts, approximately one turn with a wrench.