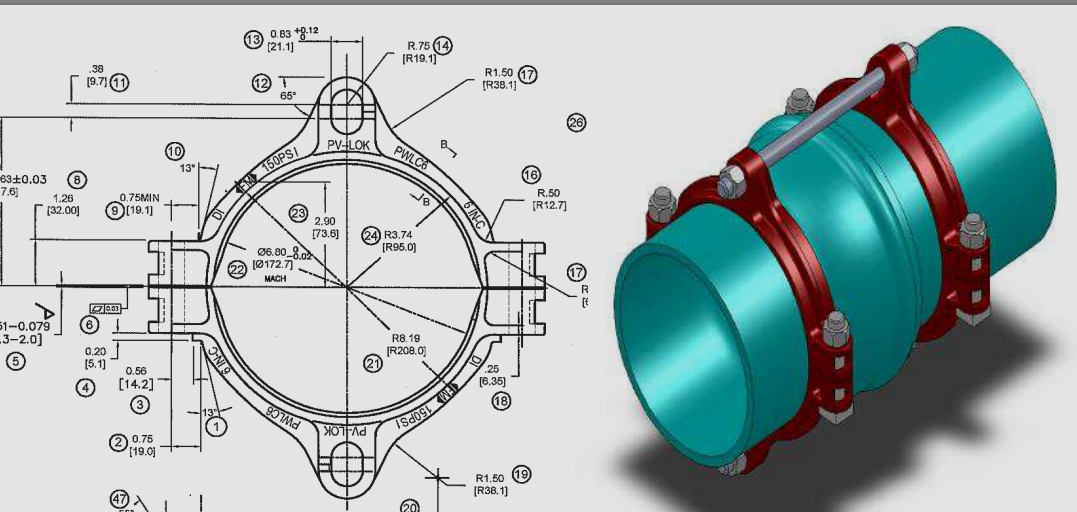


# PV-LOK™ Series PWP for Bell Joint Restraint (CIOD)



## Features & Advantages:

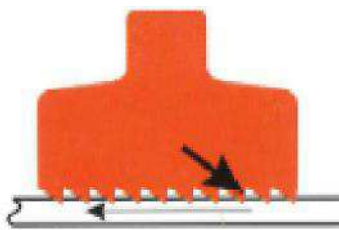
The PV-LOK™ Series PWP restrainer incorporates a series of machined serrations that effectively engage PVC pipe walls, to provide positive joint security and full support of the pipe. The directional gripping action maximizes restraint during increased line pressures such as those resulting from surges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

## 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 gasket 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 PWP or approved equal.

## Material:

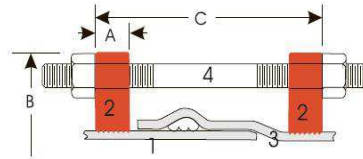
- Clamping ring is manufactured of high strength ductile iron in accordance with ASTM A536, grade 65-45-12.
- Side clamping bolt and hex nuts are high strength steel in accordance with ASTM A449 and zinc plated to B633, Type III Sc.1 for corrosion resistance.
- Restraining rods and hex nuts are of high 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.



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



# PV-LOK™ Series PWP for Bell Joint Restraint (CIOD)



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

## Dimensions in Inches, Weights in Pounds:

Pipe Size	Item #	PVC pipe w DI Pipe OD	A	B	C (max)	Restraining Rods		Nuts for Res Rods		Clamping Bolts			Weight
						No.	Size	No.	Size	No.	Size	Min Torque	
4	PWP-C4	4.80	1.20	9.00	13.00	2	3/4x15	4	3/4	4	5/8x3 3/8	85	14.36
6	PWP-C6	6.90	1.20	11.52	13.00	2	3/4x18	4	3/4	4	5/8x3 3/8	85	16.44
8	PWP-C8	9.05	1.75	12.81	13.00	2	3/4x18	4	3/4	4	3/4x3 7/8	100	27.00
10	PWP-C10	11.10	1.75	16.88	16.00	4	3/4x24	8	3/4	4	7/8x4 3/8	125	44.40
12	PWP-C12	13.20	1.75	19.12	22.00	4	3/4x24	8	3/4	4	7/8x4 3/8	125	50.64
14	PWP-C14	15.30	3.50	21.10	22.00	6	3/4x30	12	3/4	8	7/8x6 1/4	130	101.61
16	PWP-C16	17.40	3.50	23.58	22.00	6	3/4x30	12	3/4	8	7/8x6 1/4	130	114.15
18	PWP-C18	19.50	4.25	25.80	22.00	8	3/4x30	16	3/4	8	1.00x6 1/4	130	164.97
20	PWP-C20	21.60	5.00	29.06	22.00	8	3/4x36	16	3/4	8	1-1/4x6-1/2	130	234.50
24	PWP-C24	25.80	5.00	34.64	22.00	10	3/4x36	20	3/4	8	1-1/4x6-1/2	130	288.50
30	PWP-C30	32.00	5.50	41.80	38.00	10	1x40	20	1	8	1-1/4x8-1/2	130	463.75
36	PWP-C36	38.30	5.50	49.04	38.00	12	1x40	24	1	8	1-1/4x8-1/2	130	520.40
42	PWP-C42	44.50	6.26	57.18	46.00	16	1 1/4x48	32	1 1/4	8	1 1/2x9	175	983.76
48	PWP-C48	50.80	6.26	63.48	46.00	16	1 1/4x48	32	1 1/4	24	1 1/2x9	175	1058.50

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

Also suitable for use on ductile iron pipe in sizes 4-12" (350psi 4-6", 250psi 8-12")

\*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											
		C900			ASTM D2241			C905					
		DR14	DR18	DR25	SDR17	SDR21	SDR26	DR18	DR21	DR25	DR32.5	DR41	DR51
4	PWP-C4	305	235	165	250	200	160	-	-	-	-	-	-
6	PWP-C6	305	235	165	250	200	160	-	-	-	-	-	-
8	PWP-C8	305	235	165	250	200	160	-	-	-	-	-	-
10	PWP-C10	305	235	165	250	200	160	-	-	-	-	-	-
12	PWP-C12	305	235	165	250	200	160	-	-	-	-	-	-
14	PWP-C14	-	-	-	-	-	-	235	200	165	125	100	-
16	PWP-C16	-	-	-	-	-	-	235	200	165	125	100	-
18	PWP-C18	-	-	-	-	-	-	235	200	165	125	100	80
20	PWP-C20	-	-	-	-	-	-	235	200	165	125	100	80
24	PWP-C24	-	-	-	-	-	-	235	200	165	125	100	80
30	PWP-C30	-	-	-	-	-	-	-	-	165	125	100	80
36	PWP-C36	-	-	-	-	-	-	-	-	165	125	100	80
42	PWP-C42	-	-	-	-	-	-	-	-	-	125	100	80
48	PWP-C48	-	-	-	-	-	-	-	-	-	125	100	80

