

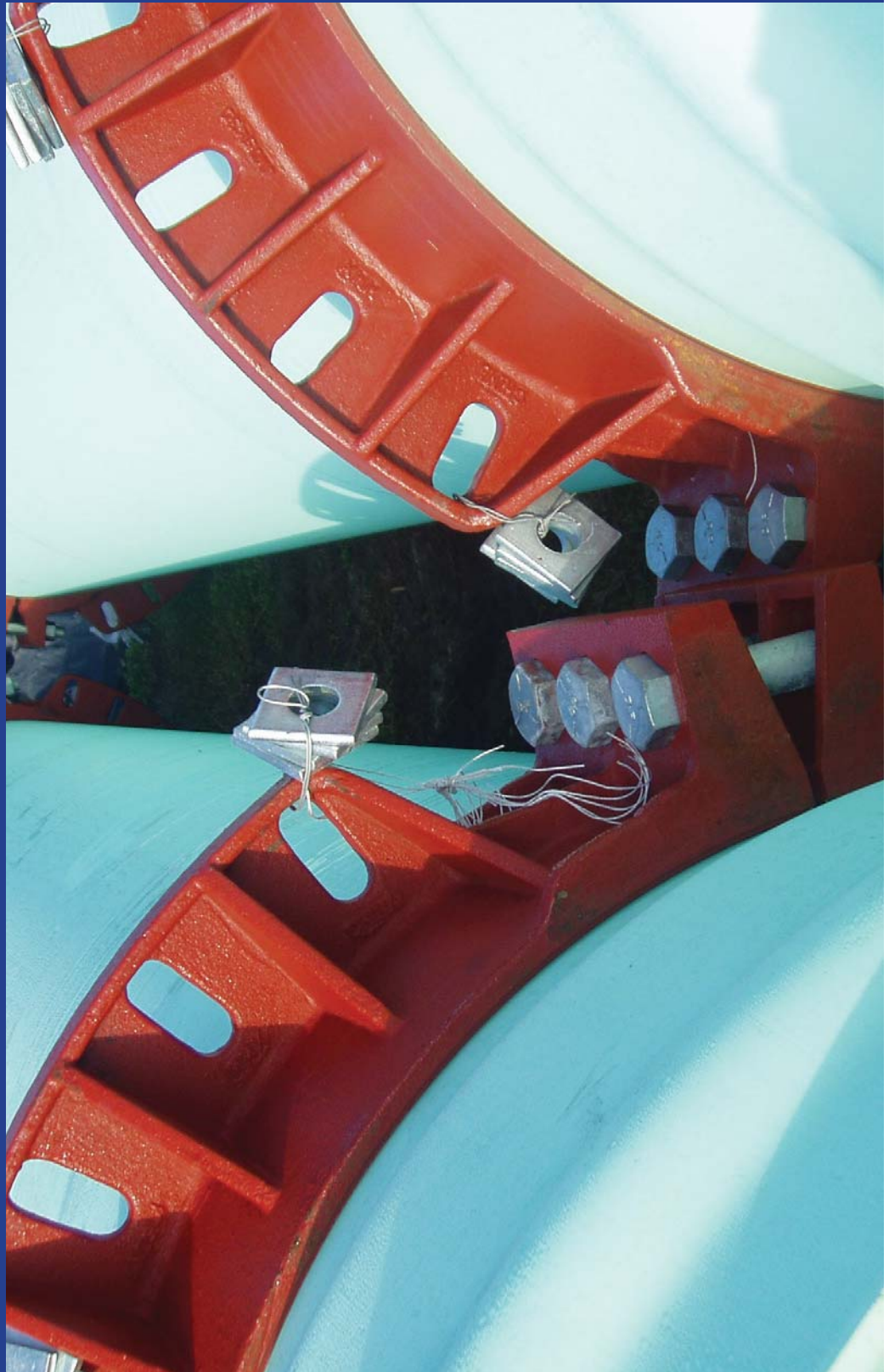


**Machine Serrated Restrainer Clamp for PVC Piping Systems**

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**PV LOK™**

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PV-LOK™

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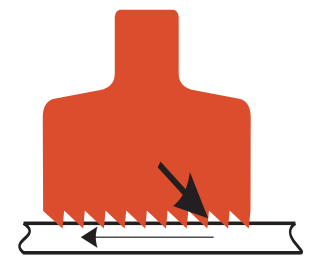
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**PV-LOK™** restrainers incorporate a series of precision machined (not “as cast”) serrations that effectively engage pipe walls, to provide positive joint security and full support of the pipe. The directional gripping action maximizes restraint during increased line pressures such as those resulting from surges and water hammers.

**PV-LOK** restrainers are manufactured with an extended fitting rib along the outside surface of the clamping ring. This prevents the side clamping bolt from rotating and allows the installer to secure the restrainer on the pipe with only ONE wrench. This anti-rotation feature makes installation of the PV-LOK faster and easier, especially on installations where access space is limited. The structural ribbing also increases the strength and performance of PV-LOK restrainers.

**PV-LOK** restrainers provide installation indicators that are cast on the clamping ring to simplify assembly and ensure proper orientation of the directional serration-lock surface. A “tab” is incorporated on each restraining ear that faces the watermain fitting or additional clamping ring on pipe bell connections. In addition, cast lettering is present on the opposite side of the ear - “NUT SIDE” - indicating the location of the restraining nut. All PV-LOK restrainers contain installation instructions which explain these features.

**PV-LOK** restrainers are suitable for use on PVC pipes with Cast Iron Outside Diameters meeting AWWA C900, AWWA C905, and AWWA C909, and Iron Pipe Size diameter pipes meeting ASTM D2241 .





The PV-LOK™ Series PVM, shown at left, is used to restrain PVC Pipe at Mechanical Joint and Push-On Joint Fittings meeting either AWWA C110 or C153 (ANSI A21.10 or A21.53). Depending on the size, elongated T-bolts or restraining rods are included in the kit to connect the fitting to the PV-LOK restrainer.



The PV-LOK™ Series PVP (right) is used to restrain PVC Pipe at bell and spigot joints. Restraining rods are included in the kit to connect the two PV-LOK restrainers, one on each side of the bell joint. In sizes 4-16" the Series PVP can also be used on ductile iron pipe bell joints.



The PV-LOK™ Series PVPF (left) is used to restrain PVC Pipe at gasketed PVC fittings. Restraining rods are included in the kit to connect the PV-LOK restrainer, to the included two piece beveled back up ring that seats behind the bell of the PVC fitting.



# P V L O K





**Sample Specification - PVM:**

Restraint devices for joining plain end PVC pipe to either mechanical joint or push-on joint with ear lug watermain fittings shall consist of a split retainer ring that incorporates 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 watermain fitting assembly. Devices shall meet or exceed the recognized testing for restrained joints on PVC pressure pipe and offer factory certification and independent test results. The product shall carry a minimum 2:1 safety factor. Restraint devices for securing PVC pipe to mechanical joint/push-on joint watermain fittings shall be SIGMA PV-LOK™ Series PVM or approved equal.

**Sample Specification - PVP:**

Restraint devices for bell and spigot joints of PVC pipe shall consist of two split retainer rings. 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 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 meet or exceed the recognized testing for restrained joints on PVC pressure pipe and offer factory certification and independent test results. The product shall carry a minimum 2:1 safety factor. Restraint devices for securing PVC pipe bell assemblies shall be SIGMA PV-LOK™ Series PVP or approved equal.

**Sample Specification - PVPF:**

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 provided shall connect the restrained pipe end to a two-piece, beveled backup ring that seats comfortably behind the PVC gasketed fitting bell. Interlocking ear 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 meet or exceed the recognized testing standards for restrained joints on PVC pressure pipe and offer factory certification and independent test results. The product shall carry a minimum 2:1 safety factor. Restraint devices for joining PVC pipe to PVC gasketed pressure fittings shall be SIGMA PV-LOK™ Series PVPF or approved equal.

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