



VALVE TO PIPE RESTRAINT STYLE A

**DUCTILE
IRON**

**Eliminates
Concrete
Thrust
Blocks**

Versatile Application, Triple-Tested STRENGTH

Eliminate Concrete Thrust Blocks

With the HARCO Valve to Pipe Restraint System, you can eliminate concrete thrust blocks. This dramatically speeds installation and allows for later access to the valve. Consult HARCO for a simple restrained pipe length calculation utility for use with this product.

Stock Just One Size of Rings...

One size fits all. An easy thing to say but not an easy thing to do, especially when you are talking about restraining rings for push-on valves. Manufacturers such as American Flow Control/ Waterous, AVK, Clow, Kennedy, Matco-Norca (10RT and 100RT), M&H and Nibco make push-on valves for use with IPS-PVC pipe. The challenge is to find one ring that fits all the various combinations of feet and stiffeners that these manufacturers employ. With the HARCO system, you need to stock just one item to work with the valve manufacturer of your choice.

What's Holding the Valve in Place?

HARCO's design clamps directly to the valve preventing movement, unlike other valve restraints that make no contact with the valve. In combination with a split ring with machined serrations that bites into the pipe, HARCO's backup ring fits over the valve behind the bell and is connected via threaded rod to the grip ring. Machined serrations have the exact dimensions required to grip the pipe perfectly, ensuring long-term performance. As cast serrations provide inconsistent gripping of the pipe and questionable long-term performance.

Note: Depending on the application additional pipe to pipe restraints may be required.

The HARCO Difference

Standards and testing are a major advantage to HARCO. The grip ring used by HARCO has been tested to comply with the industry standard for PVC pipe joint restraint, Uni-B-13-94.

**Clamps
Valve
Directly to
the Pipe,
Preventing
Movement**

**Fits Most
Makes of
Push-On
Valves for
IPS-PVC
Pipe**



VALVE TO PIPE RESTRAINT STYLE A

Valve to Pipe Assembly Instructions

Items to be assembled:

- A - (2) Grip rings with clamp bolts and nuts
- B - (2) Split rings consisting of two halves "TOP" (has small notch), "BOTTOM" (has large notch)
- C - (4) T-Bolts and nuts
- D - (1) Push joint valve

Step 1: Install valve in system with pipe ends homed to pipe stops.

Step 2: Assemble split ring around socket of bell so it seats up against the backside of valve gasket O.D. The "BOTTOM" ring half is installed on the bottom of the valve, while the other half goes on from the top side.

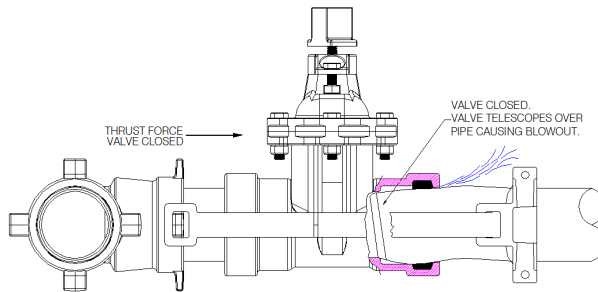
Step 3: Clamp grip rings on pipe with the rings flush against valve bells (as shown in diagram). After being sure of the alignment of the restraint bolt holes, tighten grip ring clamp bolts to 100 foot-lbs. of torque.

Step 4: Slide T-Bolt through ring holes, from clamp ring side, thread on Corten nuts tighten evenly to 5 foot-lbs. of torque for a snug fit.

Step 5: Joint restrain pipe joints up and down stream as required.

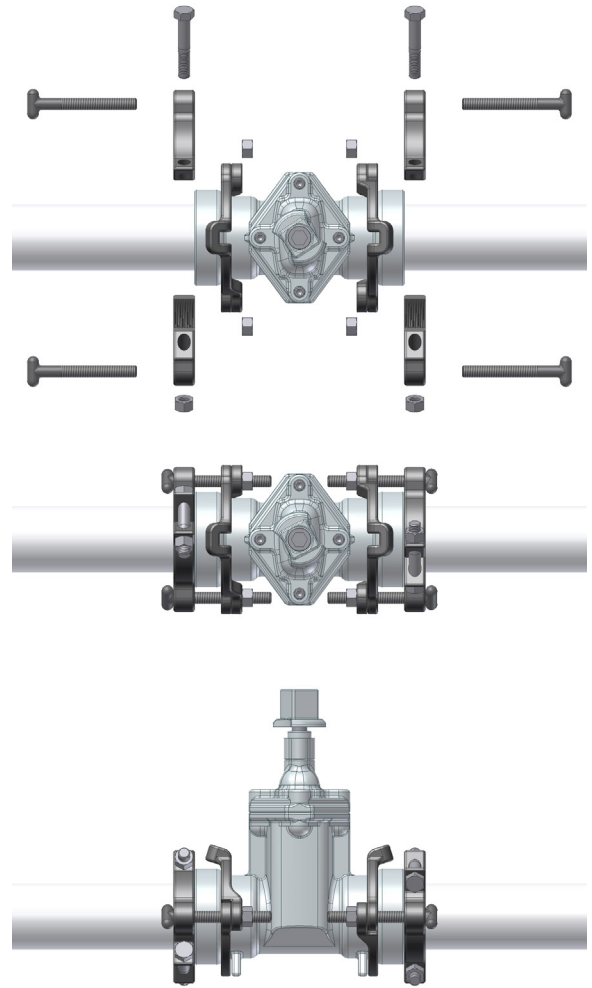
WARNING:

If grip rings are not installed flush against valve bells, the thrust force from valve closure may cause the valve to force itself over end of PVC pipe resulting in failure of gasket seal, causing a leak.



Suggested Specifications

Valve to pipe restraint shall consist of a ductile iron (ASTM A536) split ring that fits behind the bell of the valve and a ductile iron split ring with machined serrations that grips the pipe. The ring that grips the pipe shall meet all the requirements of Uni-B-13-94. The back up ring and the grip ring shall be connected with threaded rod and nuts made from low alloy steel AWWA/ANSI C111/A21.1 or ductile iron to ASTM A536. All valve restraint is to be supplied by the Harrington Corporation of Lynchburg, Virginia.



Ordering Information

SIZE	PART NUMBER	STYLE	WEIGHT
3"	820325	A	10
4"	820425	A	14
6"	820625	A	18
8"	820825	A	26

