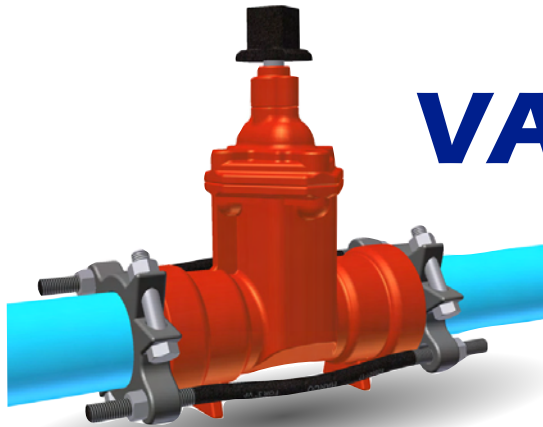


### FITTINGS

# **NEW!**

## **VALVE TO PIPE RESTRAINT**

### **NEW SIMPLER DESIGN '07 RELEASE**



**DUCTILE  
IRON**

*Restrains  
Valve  
Directly to  
the Pipe*

*Machined  
Grip Rings  
Perform  
Long Term*

*Fits  
Push-On  
Valves for  
IPS-PVC  
Pipe*

### **Engineered for Durability**

#### **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.

#### **One Size Fits All**

The Harco Valve to Pipe restraint fits push-on valves for IPS-PVC pipe made by American Flow Control/Waterous, AVK, Clow, Kennedy, Matco-Norca, M&H and Nibco.

#### **New Design with Fewer Parts**

HARCO's Valve to Pipe Restraint now has fewer parts and allows for easier installation of the grip rings and ductile iron restraint rods from the side.

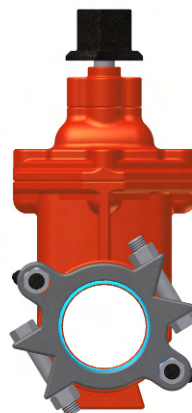
#### **Proper Thrust Force Transfer**

HARCO's design transfers valve thrust forces directly to the grip rings unlike other valve restraints that apply forces to the ends of the pipe risking a failure. Harco grip rings have

machined serrations which have the exact form required to grip the pipe perfectly, ensuring long-term performance. As cast serrations provide inconsistent gripping of the pipe and questionable long-term performance.

#### **The HARCO Difference**

Standards and testing are a major advantage to HARCO. The grip ring design used by HARCO has been tested to comply with the industry standard for PVC pipe joint restraint, Uni-B-13-94, passing all three tests: the quick burst test, the 1,000-hour test and the one million cycle test.



**Easy Access**



HARRINGTON CORPORATION • P.O. BOX 10335 • LYNCHBURG, VIRGINIA 24506

PHONE: 434-845-7094 • FAX: 434-845-8562 • E-MAIL: [sales@harcofittings.com](mailto:sales@harcofittings.com) • WEB: [www.harcofittings.com](http://www.harcofittings.com)

PF105-121007

# VALVE TO PIPE RESTRAINT SYSTEM

## Product Sheet

### Valve to Pipe Assembly Instructions (Style B)

#### Items to be assembled:

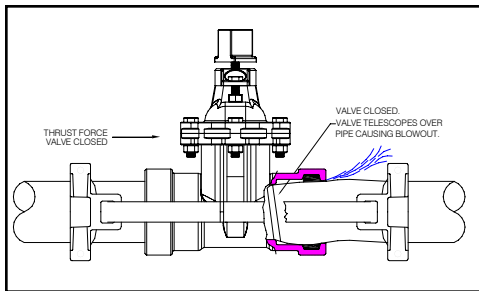
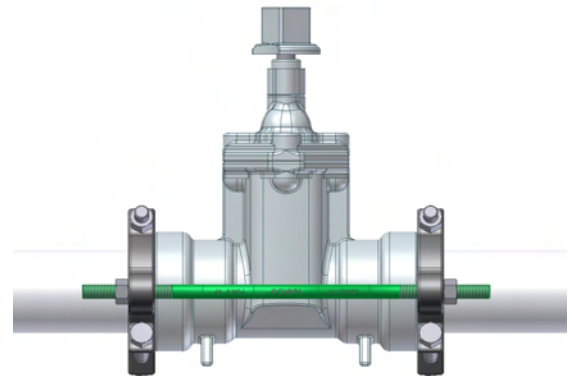
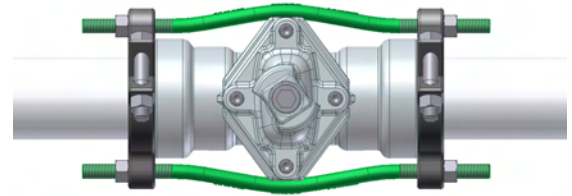
- A - (2) Grip Rings w/ Clamp Bolts & Nuts.
- B - 2" - 8" include (2) Restraint Rod & (4) Nut  
10" & 12" includes (4) Restraint Rod & Nut, (4) Nut
- C - (1) Push-On Valve.

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

**Step 2:** Pre-install restraint rods through grip ring restraint holes, before installing grip rings on pipe. Thread nuts on each end of both threaded rods down approximately 1" to allow for loose fit during positioning of grip ring on pipe.

**Step 3:** Clamp grip rings on pipe with the rings flush against valve bells. (as shown in diagram) Tighten grip ring clamp bolts to 100 ft-lbs. of torque.

**Step 4:** Tighten restraint rod nuts evenly on 5/8" threaded rod to 5 ft-lbs. of torque.



#### 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 ductile iron (ASTM A536) grip rings with machined serrations and ductile iron restraint rods. The ring that grips the pipe shall meet the requirements of Uni-B-13-94. The restraint rod nuts shall be made from low alloy steel to 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
2"	820125	B	10
2½"	820225	B	11
3"	820326	B	13
4"	820426	B	17
6"	820626	B	22
8"	820826	B	33
10"	821025	B	64
12"	821225	B	72



2" - 8"



10" - 12"



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