

 **YORK**[®] INTERNATIONAL
CORPORATION

Installation Guide
For

Type "URA" Series
Reverse Acting
Rupture Disk

YORK INTERNATIONAL CORPORATION

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HOLDER PREPARATION

1) Removal Of The Holder From The System

- a) Remove the holder from the system and place on a clean flat surface.
- b) Disassemble the holder by loosening the pre-assembly tab screws, lift the outlet flange up and set aside.
- c) Clean the clamping surfaces of the holder thoroughly. Dirt and grit on these surfaces can damage the fragile disk and cause leaks.
- d) Examine the sealing "bite" on the inlet flange carefully. If it has been damaged **DO NOT USE**; send it back to the factory for reconditioning.
- e) Remove any adhered gasket material from the previous installation.

2) Assembly of the Rupture Disk and Holder

- a) The URA rupture disk is to be installed in a URA series holder **ONLY**.
- b) The URA rupture disk is a precision instrument and must be handled with extreme care. Rupture disks should be installed only by qualified personnel familiar rupture disks and correct piping practice.
- c) Zook Enterprises, LLC does not recommend reinstalling a rupture disk that has been removed from its holder. Reinstallation may adversely affect the sealing capabilities and/or the performance of the rupture disk.
- d) Carefully remove the disk from its package.
- e) Examine the disk carefully before installation. **DO NOT USE IF THERE IS ANY INDICATION OF DAMAGE**. Handle with extreme care.
- f) Place the holder inlet on a flat surface with the counterbore facing up.
- g) Align the notch in the rupture disk tag with the pin in the holder. Place the rupture disk over the alignment pin into the counterbore of the inlet with the dome side down. **DO NOT USE A GASKET**.
- h) Position the outlet flange carefully into the counterbore with the alignment pin engaged. Be careful not to damage the rupture disk.
- i) Fasten the assembly together by tightening the pre-assembly tab screws.

3) Installation Of The Assembly Into The System

- Before placing the assembly into the system, ensure that the companion flange gasket surfaces are clean and free from all rust, corrosion, and foreign material.
- Install the assembly and customer furnished gaskets, WITH ALL FLOW ARROWS POINTING IN THE PROPER DIRECTION between the companion flanges.
- Follow the torquing procedure below.

4) Torquing Procedure

- Use only lightly oiled free running studs and nuts.
- While keeping the upper and lower halves of the disc holder parallel, tighten nuts to finger tightness.
- Using a torque wrench, tighten each nut to 1/4 of the final torque (see table below) in sequence around the clock (12 o'clock, 6 o'clock, 3 o'clock, 9 o'clock) until every nut has been tightened.
- Repeat step 2 to 1/2 of the desired final torque.
- Repeat step 2 to 3/4 of the desired final torque.
- Repeat step 2 to the full final torque.

TORQUE TABLE 1 - (FOOT POUNDS)

SIZE	SERIES	ALUM	OTHER	SIZE	SERIES	ALUM	OTHER
1"	150	20	20	10"	150	100	120
	300/600	-	40		300	-	180
	900/1500	-	120		600	-	370
1-1/2"	150	20	24	12"	150	112	132
	300/600	-	80		300	-	270
	900/1500	-	180		600	-	380
2"	150	40	40	14"	150	160	190
	300/600	-	40		300	-	380
	900/1500	-	120		600	-	-
3"	150	40	48	16"	150	180	190
	300/600	-	80		300	-	380
	900	-	120		600	-	-
4"	150	40	44	18"	150	236	380
	300	-	92		300	-	275
	600	-	120		600	-	-
6"	150	80	82	20"	150	236	275
	300	-	82		300	-	380
	600	-	180		600	-	-
8"	150	80	78	24"	150	340	380
	300	-	120		300	-	675
	600	-	265		600	-	-

11, 22, 33, 44 F lbs

WARNING

It is the users responsibility for the design of adequate venting and installation of adequate vent piping or directional flow after rupture occurs with the rupture disk as intended. When size is specified, **YORK INTERNATIONAL CORPORATION** assumes the adequate provisions have been made by the purchaser and/or user for proper venting of a system to relieve the specific pressure. Locate the rupture disk where people or property will not be exposed to the system discharge in the event of rupture. Vent toxic or flammable fumes to a safe location to prevent personal injury or property damage.

It is the users responsibility to specify the burst pressure rating at the coincident temperature at which the rupture disk is to be used. A rupture disk is a temperature sensitive device. The burst pressure of the rupture disk is directly affected by its exposure to the coincident temperature. Failure to utilize a rupture disk at the specified coincident temperature could cause premature failure or overpressurization of the system.

Particles may discharge when the rupture disk ruptures. These particles may be part of the rupture disk itself, or other environmental matter in the system. It is the user's responsibility to ensure that the particles are directed to a safe area to prevent personnel injury or property damage.

There is no guarantee of rupture disk life. Such life span is affected by corrosion, creep and fatigue, and physical damage. These conditions will derate the rupture disk to a lower pressure. The user should be prepared to handle a premature failure of the rupture disk. The media or other environmental conditions should not allow for any build-up or solidification of media to occur on a rupture disk. This may increase the setting of the rupture disk.

The customer and/or its installer shall be responsible for the proper installation of seller's holders and rupture disks into a system. Customer and/or its installers shall be responsible for improper installation and physical damage resulting therefrom, including, but not limited to, damage resulting from leakage, improper torquing, and failure to follow installation instructions.