

INSTALLATION INSTRUCTIONS
FOR

WARRANTY

ZOOK ENTERPRISES, LLC WARRANTS ITS PRODUCTS AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS. THIS WARRANTY IS LIMITED TO THE REPLACEMENT WITHOUT CHARGE OF THE DEFECTIVE PRODUCT ONLY AND DOES NOT COVER ANY OTHER DIRECT OR INDIRECT COSTS WHICH MAY BE ATTRIBUTED TO THE DEFECT, PROVIDED IT IS PROPERLY INSTALLED AND USED WITHIN THE SCOPE FOR WHICH IT IS INTENDED.

BA
RUPTURE DISK INDICATOR

ZOOK[®]



P.O. Box 419
16809 Park Circle Drive
Chagrin Falls, Ohio USA 44022-0419
Phone: (440) 543-1010 Fax: (440) 543-4930

SERVICE LIMITS

1. The BA indicator can be used on liquid, gas or two phase flow.
2. Minimum system operating pressure is 5 psi.
3. Minimum operating temperature range is – 40°F (-40°C) to maximum 500°F (260°C). Consult ZOOK for higher temperatures.
4. Suitable for intrinsically safe power levels. Maximum current 500mA, maximum voltage 24 VDC.

SELECT PROPER LOCATION

1. **ALWAYS VENT THE OUTLET TO A SAFE AREA**, away from personnel. If the process fluid is toxic or hazardous connect the outlet side of the rupture disk assembly to a containment tank.
2. Consideration should be given to prevent build up of rain water, snow, animal nesting or other debris that may build up in the discharge piping and disturb the normal operation of the BA indicator.

INSTALLATION INSTRUCTIONS

1. The BA indicator is installed on the vent side of the rupture disk assembly normally between the disk holder and the companion flanges. The indicator is compatible with all ZOOK rupture disk holders. Sizes 1" – 24" are designed to fit within the bolts of standard ANSI class 150 flanges.
2. Insure the metal conductor is inserted in the slot 180° across from its hinge.
3. Clean the clamping surfaces of the companion flanges and if required the disk holder thoroughly.
4. For proper orientation, the flow arrow on the tag must point in the venting direction. Place the BA indicator between the companion flanges and disk holder centering it within the bolts.
5. Use electrically insulated gaskets on both sides of the BA indicator if not supplied preattached.
6. Mark the installation date on the back of the BA tag.
7. Follow the torquing procedure on the next page.
8. The conductor may be reinserted in the slot 180° across from its hinge after each detection.

LEAK DETECTION (LD) OPTION INSTALLATION

1. The LD is installed immediately upstream of the BA indicator.
2. Align outside diameter of LD with outside diameter of the BA.
3. The LD may be held in place by using small piece of Scotch® tape over the outside diameter on both sides of the BA. Locate tape 90° from both sides of identification tag.

Tap must not extend more than half way across gasket surface.

After each leak detection a replacement LD must be installed.

Contact ZOOK for replacement LD kits.

TORQUING PROCEDURE

NOTE: When installing the BA in conjunction with a rupture disk, follow the torquing specifications indicated in the rupture disk installation instructions.

1. Finger tighten all of the nuts.
2. Using a torque wrench, cross-tighten each bolt to ¼ of the desired final torque (see table 1 below) until every bolt has been tightened.
3. Repeat step 2 to ½, ¾, and then to the full desired final torque.

NOTE: OVER TORQUING CAN DAMAGE THE BA INDICATOR.

Size (ANSI Class 150)	Torque (ft. lbs.)	Size (ANSI Class 150)	Torque (ft. lbs.)
1"	20	10"	100
1 ½"	20	12"	112
2"	40	14"	160
3"	40	16"	160
4"	40	18"	236
6"	80	20"	236
8"	80	24"	240

TORQUE VALUES BASED ON THE BOLT THREADS BEING LIGHTLY LUBRICATED AND FREE RUNNING

Warning: Field modification and material substitution will void the warranty of this product.