

### Integral Burst Indication for Flat Seated Metal Rupture Disks

Over-pressure indication for metal rupture disk installations. The BI Integral Burst Indicator is a simple and effective means of indicating when the process media ruptures a disk.

#### Operation

The BI is integrated into the vent side of the rupture disk assembly. Upon rupture of the disk, the BI alarm circuit is opened.

#### Features

- Resistant to the effects of back pressure from common discharge manifolds
- Compatible with most ZOOK flat-seat metal and sanitary rupture disks
- Classified as a simple apparatus and may be used in a hazardous environment. Must be used in conjunction with intrinsically safe certified electrical apparatus and installed & maintained to meet all other requirements of an intrinsically safe installation & local codes
- Reduces stock inventory by incorporating the burst indicator and disk into a single unit
- BI comes standard with connection 2 and 6' (1828 mm) of signal wire if not specified

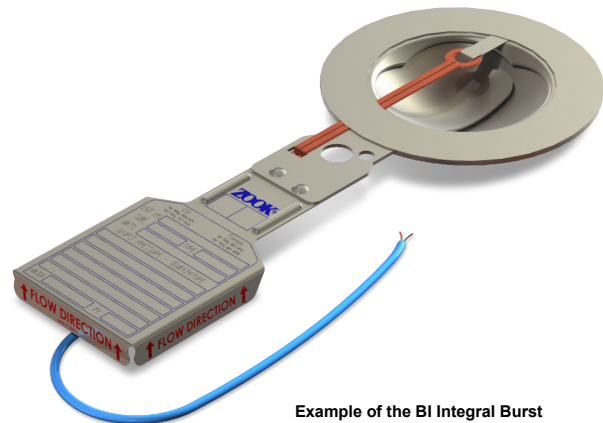
**Note:** \*Blue Belden Wire: 1503A, 22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

#### Materials

**Membrane** – Kapton

**Conductive material** – Copper

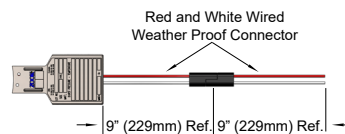
**Leadwire** – Blue Belden\* wire



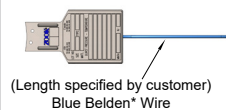
Example of the BI Integral Burst Indicator on a ZOOK Rupture Disk

#### Connections

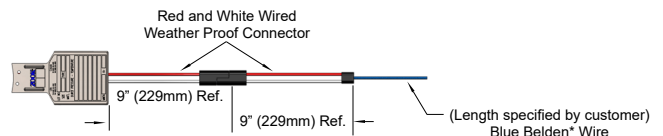
##### Connection 1



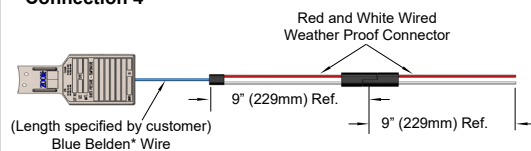
##### Connection 2



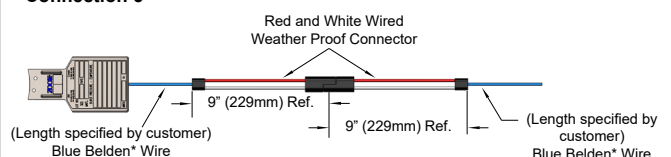
##### Connection 3



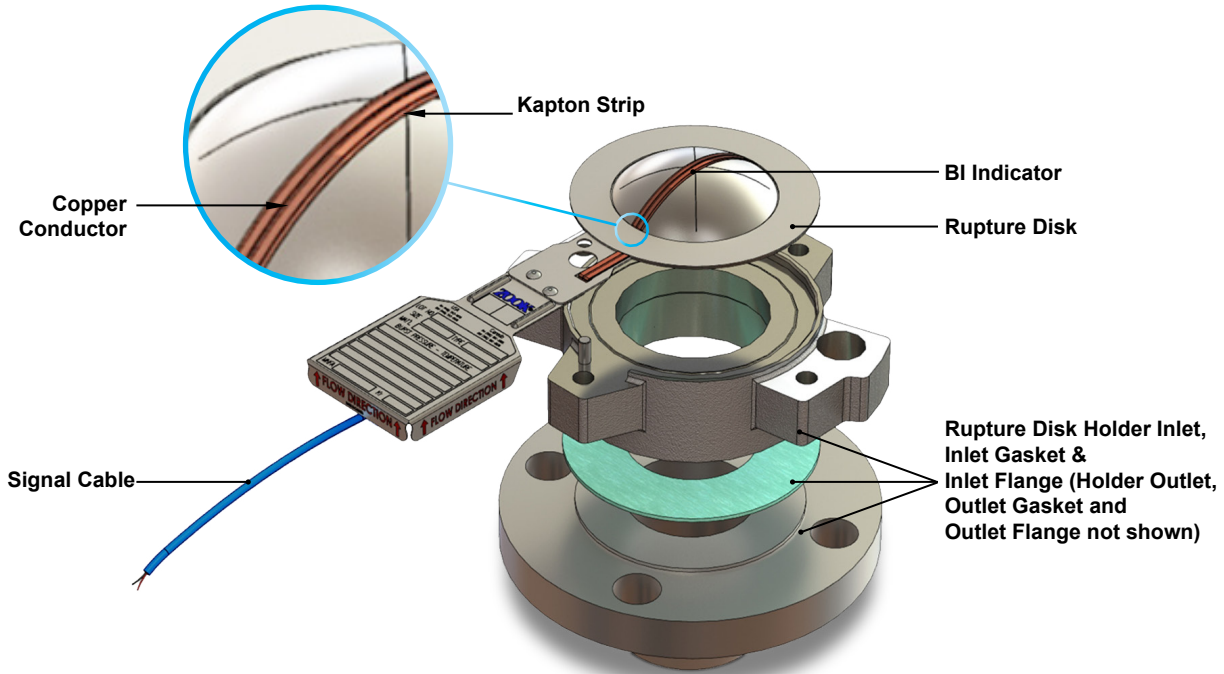
##### Connection 4



##### Connection 5



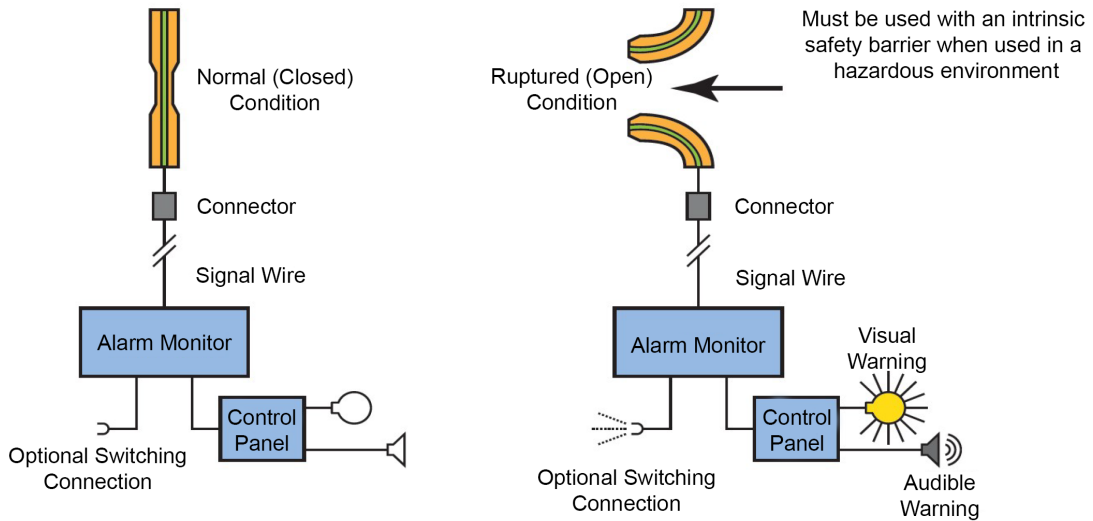
# BI Series Specifications



## Electrical Properties

Maximum Pre-Rupture Resistance	20 Ω	Maximum Voltage	24 V DC
Temperature Range	-40 to 400°F ( -40 to 204°C )	Maximum Current	50 mA

## Operating Schematic



KAPTON - Registered Trademark of DuPont

BI\_112022

[zookdisk.com](http://zookdisk.com)



**SERVING AMERICA, CENTRAL & SOUTH AMERICA**  
 16809 Park Circle Drive  
 Chagrin Falls, Ohio 44022  
 United States  
 Toll Free: +1 800 543 1043  
 Phone: +1 440 543 1010  
 E-mail: [sales@zookdisk.com](mailto:sales@zookdisk.com)

**SERVING EUROPE, MIDDLE EAST & AFRICA**  
 Navigation House, Bridge St.  
 Killamarsh, Sheffield, S21 1AL  
 United Kingdom  
 Phone: +44 (0) 1909 560999  
 E-mail: [sales.europe@zookdisk.com](mailto:sales.europe@zookdisk.com)

**SERVING CANADA**  
 4400 South Service Road  
 Burlington, Ontario, L7L 5R8  
 Canada  
 Toll Free: +1 800 370 6057  
 Phone: +1 905 681 2885  
 E-mail: [sales.canada@zookdisk.com](mailto:sales.canada@zookdisk.com)

**SERVING ASIA PACIFIC**  
 Menara LGB TTDI  
 Unit 6-3A, Level 6, Menara LGB,  
 No. 1, Jalan Wan Kadir,  
 Taman Tun Dr. Ismail,  
 60000 Kuala Lumpur, Malaysia  
 Phone: +603 2706 0098  
 E-mail: [sales.asia@zookdisk.com](mailto:sales.asia@zookdisk.com)

Safety through knowledge and performance.