

Over Pressure Indication for Rupture Disk or Relief Valve Applications

When a pressure surge causes a relief valve to open, it also opens the rupture disk under the valve. This leaves the valve vulnerable to chemical attack. The BA Burst Sensor reduces this threat by constantly monitoring the disk. When connected to an electrical alarm, the BA Burst Sensor alerts personnel to take immediate action to protect system components from further damage.

Operation

When a disk bursts, flow pushes one end of the BA Burst Sensor's conductor out of its retaining slot and opens the electrical circuit. The BA Burst Sensor can be reset by re-inserting the conductor into the retaining slot.

Models

- BA Burst Sensor
- BA-L Burst Sensor with integral Leak Detector
- LD Separate Leak Detector to be used with a BA or RDI

Features

- Re-Settable
- Sizes 1" thru 36" (25 mm 900 mm)
- Electrically conductive
- . Installs on vent side of the disk holder or alone
- Requires minimal flange face-to-face clearance
- Adapts to virtually all makes/types of rupture disks, including Graphite types
- Fits easily into existing pipe systems
- Standard Connection: Red and White wired weatherproof Connector (Connection 1)
- Leak detection options includes the BA-L with an integral Leak
 Detector, and the LD (sold separately) for use with a standard
 BA. Both will indicate if the rupture disk or relief valve is leaking
 fugitive emissions downstream though the assembly
- Moisture and abrasion resistant connector features two-pin bullet terminal
- Compatible with Metal or Graphite Rupture Disks or for stand alone use (relief valve applications)

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.

BA Operating Limits		
Max. Temperature	700°F (371°C)	
Max. Continuous Temp	548°F (287°C)	
Max. Voltage	24 VDC	
Max. Current	50 mA	

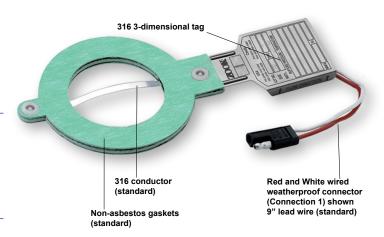
*BA equipped with PTFE gaskets and BA-L & LD are limited to 500°F (260°C)

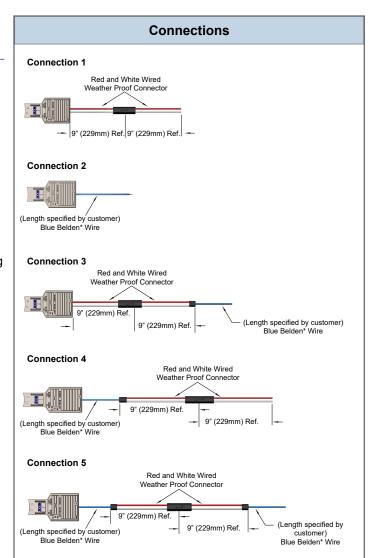
BA Size	Nominal Indicator Thickness	Thickness with Optional LD
1" - 24" (25 mm - 600 mm)	3/16" (5 mm)	1/4" (6 mm)

Please consult your local ZOOK representative or contact us at sales@zookdisk.com.

Ordering Information

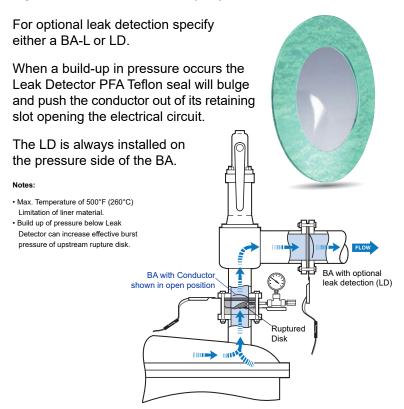
When ordering BA Series, specify: flange size, flange series, relieving pressure or pressure relief device, connection type and coincident temperature.





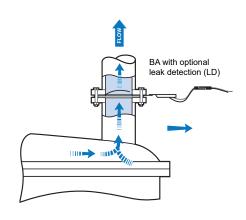
BA Series Specifications

Optional Leak Detector (LD) for BA Burst Sensor



Relief Valve with BA & LD Burst Sensor Applications

BA with Optional Leak Detection (LD) with conductor shown in open position Note: BA, BA-L, and BA with LD are considered simple devices, therefore, approval is not required. Installation must be in accordance with ANSI/ISA RP12.6 and the NEC (ANSI/NFPA 70)



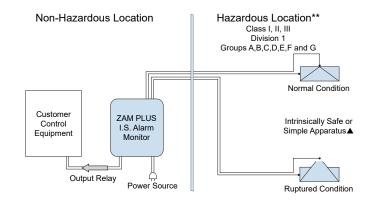
Storage Tank Application with BA & LD

Monitor

The BA Burst Sensor works with ZOOK ZAM Plus Alarm Monitor or any other monitoring system. Consult ZOOK for additional information. The monitor wired to the BA Burst Sensor will be activated providing immediate local or remote warning of a ruptured disk. The ZAM Plus monitor allows output to control pumps, valves, and other equipment which may be activated to control or shutdown a process.

CAUTION

The BA Burst Sensor is an electrical device suitable for use in hazardous locations (Class I, II, and III, Division 1, Group A thru G) provided that it is used with an approved intrinsically safe electrical alarm monitor. Not suitable for conductive fluids, contact ZOOK for alternative option.



Notes:

**Contact ZOOK for information about mounting the ZAM Plus Alarm Monitor in hazardous locations.

▲ Hazardous location equipment must be NEC compliant or simple apparatus.



BA 032024

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

SERVING EUROPE, MIDDLE EAST & AFRICA

E-mail: sales.europe@zookdisk.com

Navigation House, Bridge St. Killamarsh, Sheffield, S21 1AL United Kingdom Phone: +44 (0) 1909 560999

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

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