



# BA Series Rupture Disk Burst Sensor

## Over pressure indication for rupture disk or relief valve applications

When a pressure surge causes a relief valve to open, it also destroys 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 pulls 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.

### Features

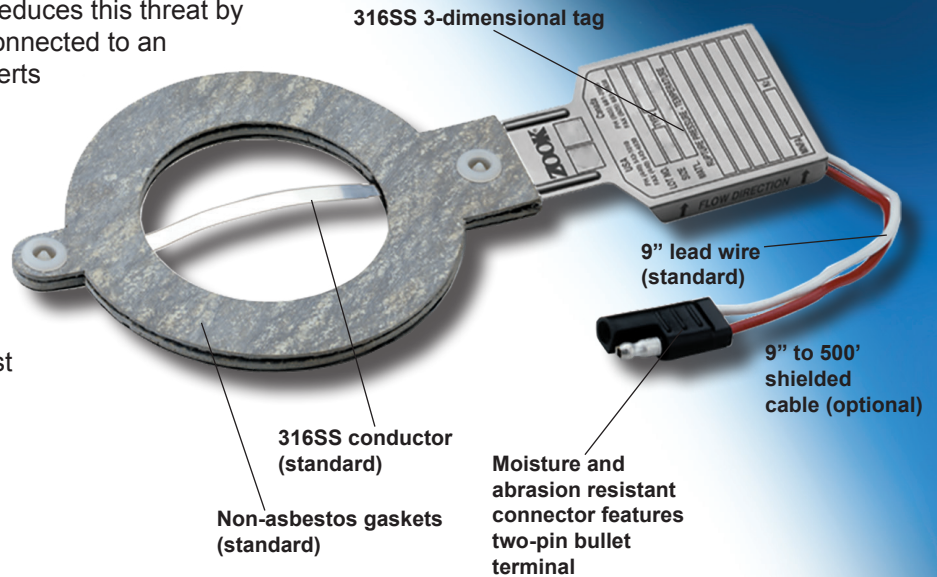
- Re-Settable
- Sizes 1" thru 24"
- Electrically conductive
- Installs on vent side of the disk holder or alone
- Requires minimal flange face-to-face clearanc
- Adapts to virtually all makes/types of rupture disks, including Graphite types
- Fits easily into existing pipe systems
- Optional leak detection (BA-LD) for damaged rupture disks or fugitive emissions from relief valves or atmospheric designed systems
- BA-LD functions with or without a rupture disk

BA Operating Limits	
Max. Temperature	700°F
Max. Continuous Temp	400°F
Max. Voltage	24 VDC
Max. Current	20 mA

### Specification

Disk Size	Minimum Burst Pressure* psi @ 72°F (22°C)	Nominal Indicator Thickness	Thickness with Optional LD
1" - 2"	5	3/16"	1/4"
3"	3		
4"	2		
6" - 24"	1		

\*If burst pressures are near the min, if flow or volume is low, or if detection is critical, we recommend redundant indication or the consideration of other ZOOK indicators (Applies to both BA and BA-LD). Please consult your local ZOOK representative or contact us at [sales@zookdisk.com](mailto:sales@zookdisk.com).



Conductor shown in open position



**Note:** BA and BA-LD is considered a simple device, therefore, approval is not required. Installation must be in accordance with ANSI/ISA RP12.6 and the NEC (ANSI/NFPA 70)

### Ordering Information

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



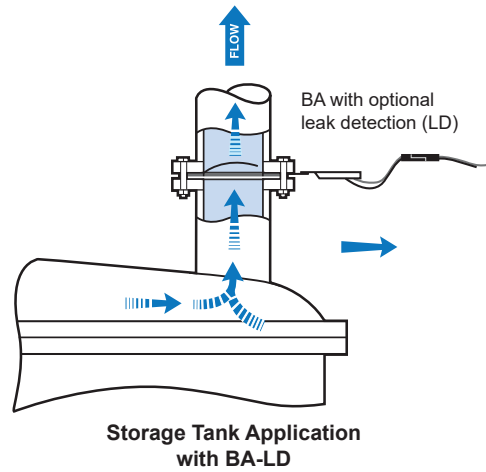
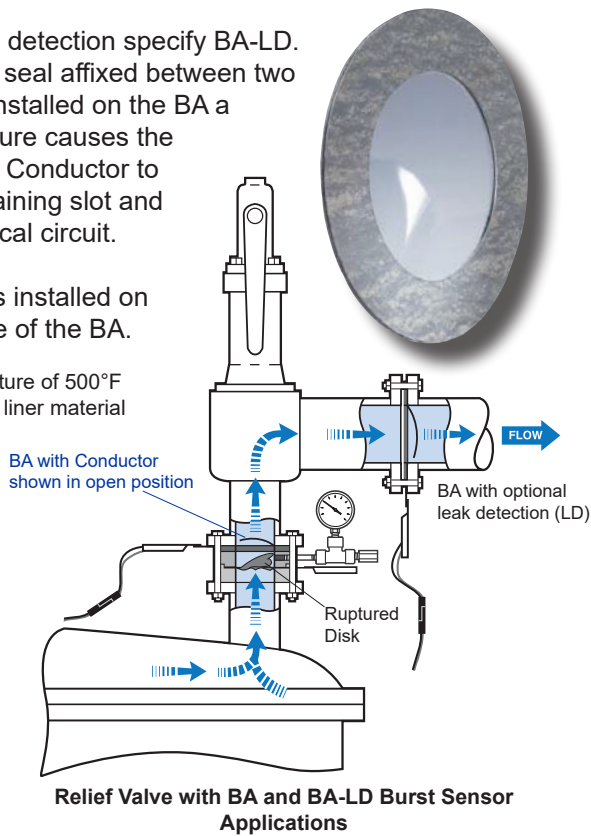
# BA Series Specifications

## Optional Leak Detector (LD) for BA Burst Sensor

For optional leak detection specify BA-LD. The LD is a TFE seal affixed between two gaskets. When installed on the BA a build-up in pressure causes the BA Burst Sensor Conductor to pull out of its retaining slot and opens the electrical circuit.

The LD is always installed on the pressure side of the BA.

**Note:** Max. Temperature of 500°F (260°C) Limitation of liner material

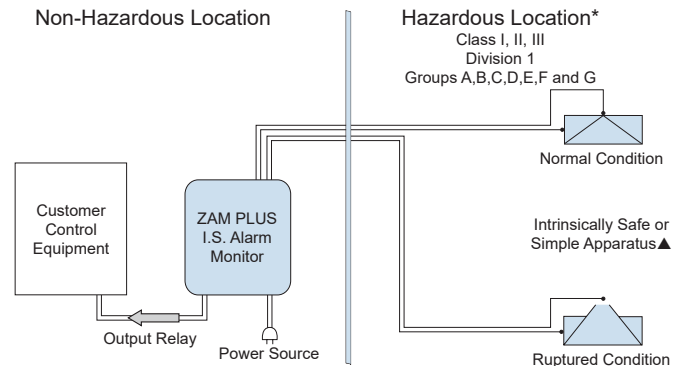


## Monitor

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 and 2, Group A thru G) provided that it is used with an approved intrinsically safe electrical alarm monitor. For services involving highly electrically conductive fluids, consult the ZOOK factory for this type of application.



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