

## Over pressure or discharge indication for rupture disk and safety relief valve applications

The Rupture Disk Indicator RDI is a simple and effective means of indicating when the process media ruptures a disk or the valve has discharged.

## **Operation**

The RDI installs onto the vent side of a rupture disk assembly or onto the discharge side of a relief valve. Upon rupture of the disk or discharge of the relief valve, the RDI alarm circuit is opened by the flowing media.

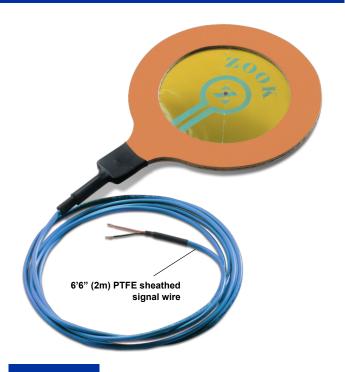
## **Features**

- One time use, cost effective, stand alone burst indication
- Sizes 1" thru 24" (25 mm thru 600 mm)
- Compatible with Metal or Graphite Rupture Disks or for stand alone use (relief valve applications)
- Resistant to most chemicals
- Minimizes downtime due to immediate burst indication
- Supplied ready for installation
- Installs easily into existing pipe systems
- Furnished with attached 6'6" (2m) PTFE sheathed signal wire
- No routine maintenance required
- Installs on outlet side of graphite rupture disk or metal rupture disk holder isolating the RDI from the process media
- RDI is considered a simple device, therefore ATEX approval is not required. Installation must be in ccordance with ANSI/ISA RP12.6 and the NEC (ANSI/NFPA 70)

RDI Operating Limits		
Max. Voltage	24 VDC	
Max. Current	150 mA	
Temp. Range	-40°F to 400°F (-40°C to 204°C)	

# **Specifications**

RDI Size	Minimum Burst Pressure psi (barg) @ 72°F (22°C)	Nominal Indicator Thickness
1" (25 mm) - 2" (50 mm)	5 (0.34)	- 3/16" (4.7mm)
3" (75 mm)	3 (0.21)	
4" (100 mm)	2 (0.14)	
6" - 24" (150 mm - 600 mm)	1 (0.07)	



## **Materials**

Gaskets – Compressed fiber

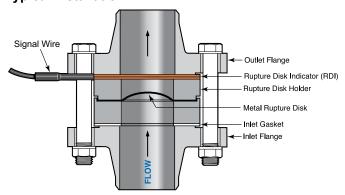
Membrane – Kapton

Conductive material – Silver

Leadwire – 6'6" (2m), 24 AWG, 2 conductor

PTFE sheathed signal wire

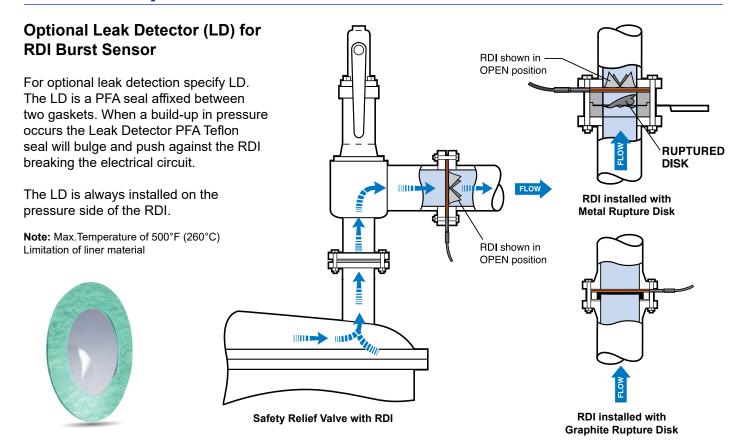
## **Typical Installation**



# **Ordering Information**

When ordering RDI, specify: flange size, flange series, relieving pressure of pressure relief device, and coincident temperature. Contact ZOOK for stocked sizes ready for immediate shipment.

# **RDI Series Specifications**



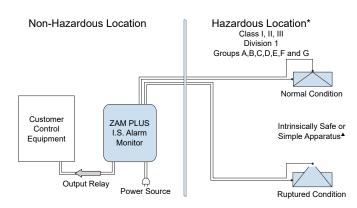
#### **Monitor**

The RDI Rupture Disk Indicator works with ZOOK ZAM Plus Alarm Monitor or any other monitoring system. Contact ZOOK for additional information. The monitor wired to the RDI 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 RDI 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, contact ZOOK for this type of application.



#### 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

KAPTON - Registered Trademark of DuPont



RDI 112022

## 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

Navigation House, Bridge St. Killamarsh, Sheffield, S21 1AL United Kingdom

Phone: +44 (0) 1909 560999 E-mail: 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

#### **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