

BURST INDICATION FOR USE IN SANITARY TRI CLAMP FITTINGS

Over-pressure or discharge indication for bursting disk installations. The RDI-S Disk Burst Indicator is a simple and effective means of indicating when the process media ruptures a disk.

Operation

The RDI-S installs onto the vent side of a sanitary bursting disk assembly. Upon rupture of the disk, the RDI-S alarm circuit is opened by the flowing media.

- One-time use, low cost design compatible with metal or graphite bursting disks
- Fits easily into existing piping systems
- Installs on the outlet side of bursting disk or bursting disk holder, isolating the RDI-S from the process media

Features

- One time use, cost effective, stand alone burst indication
- 25mm (1") to 100mm (4") diameter
- Early indication of burst minimizes product waste and environmental damage from release of harmful process fluids
- Supplied ready for installation
- Fits standard Tri Clover and NA couplings used with sanitary ferrules to BS4825¹
- Burst is detected by breakage of silver conductor element printed to the chemically resistant polyamide detector membrane. Signal may be used to activate a variety of alarm or control equipment
- Signals instantly when the bursting disk ruptures
- RDI-S is considered a simple device, therefore ATEX approval is not required. Installation must be in accordance with ANSI/ISA RP12.6 and the NEC (ANSI/NFPA 70)

Materials

Membrane – Kapton®

FDA Certified Gaskets – Viton or EPDM*

Conductive materials – Silver

Cable – 2m / 6'6", 24 AWG, 2 conductor PVC sheathed signal wire

Note:

* A full copy of the Gaskets Certificate of Compliance can be accessed [here](#).

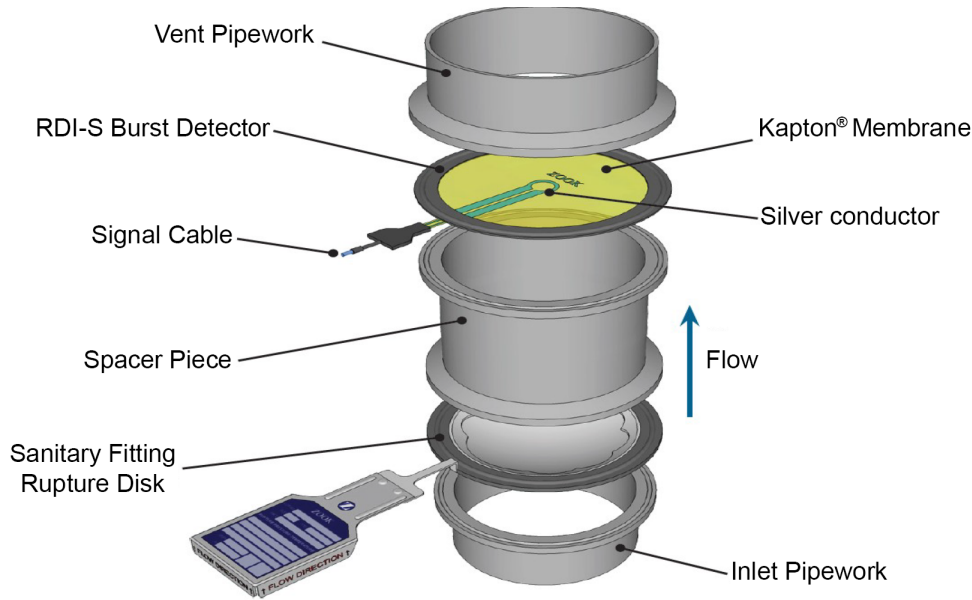
* Consult ZOOK for other materials

¹ Consult ZOOK for ferrules to other standards
(e.g. DIN32676, ISO 2582/ISO1127)



RDI-S Series Specifications

Typical Installation:



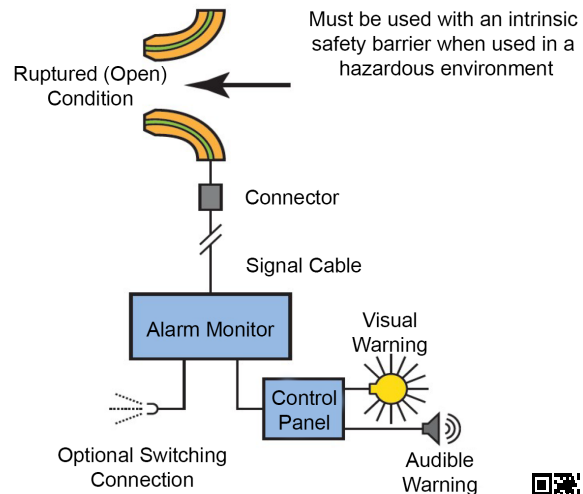
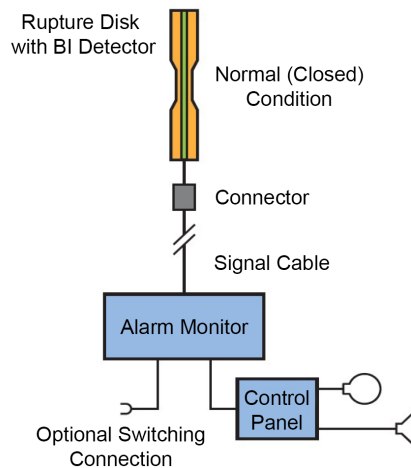
Electrical Properties:

Max. Pre-Burst Resistance	20 Ω
Maximum Voltage	24 V AC/DC
Maximum Current	150 mA
Temperature Range	-40°F to 400°F (-40°C to 204°C)

Minimum Burst Pressure required to activate RDI-S:

Nominal Size	Barg (Psig)
25 mm (1")	0.62 barg (9 psig)
40 mm (1.5")	0.62 barg (9 psig)
50 mm (2")	0.55 barg (8 psig)
80 mm (3")	0.41 barg (6 psig)
100 mm (4")	0.28 barg (4 psig)

Operating Schematic:



RDI-S_112024

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
 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

Safety through knowledge and performance.