



BS&B SAFETY SYSTEMS, L.L.C.  
BS&B SAFETY SYSTEMS LTD

# Electronic Vis-U-Tec™ Sensor

The Electronic Vis-U-Tec™ Sensor is a pressure sensing device. It provides an electrical signal and visual warning of a ruptured disk when used with a BS&B Burst Disk Monitor™ or other suitable electrical monitoring equipment. Instant warning of a ruptured disk can reduce plant downtime, product loss and environmental pollution.

When the Vis-U-Tec™ senses a differential pressure of 10 psig (0.69 barg) downstream of the rupture disk, the piston will move to its fully extended position providing a visual warning of the ruptured disk. The movement of the piston causes a break in the sensor's conductive circuit. The disruption of the current flowing through the circuit provides an electrical signal which activates a Burst Disk Monitor™ or other suitable electrical monitoring equipment to give an audible and/or visual signal.



## Installation

The electronic Vis-U-Tec™ sensor is fitted to the outlet of the safety head or piping using a 1/4" NPT screw connection.

## Applications

The Electronic Vis-U-Tec™ will provide warning of a ruptured disk.

**Relief Valve Isolation** - Used alone or in addition to the standard Telltale Indicator.\*

**Double Disk Assembly** - Installed in the midflange between both rupture disks.

**Free Venting Disks** - Venting to the atmosphere or into down stream piping.

**Other Applications** - On storage, process vessels or equipment to warn of an increase in pressure of/or above 10 psig.

\*Nipple, cross, gauge and excess flow valve.

## Resetting of Sensor

When a ruptured disk has been replaced, the Electronic Vis-U-Tec™ sensor may be reset by pushing the piston back fully into the unit.

## Materials of Construction

All wetted parts that may come in contact with process fluids are 316 SS. The piston is sealed with a Viton® O-ring.

## Operating Conditions

Venting into Enclosed Volume	
Activation pressure	10 psig (0.69 barg)
Minimum disk burst pressure	40 psig (2.76 barg)

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Free Venting Disk			
Disk Size		Minimum Burst Pressure	
in	mm	psig	barg
1	25	100	6.89
1.5	40	100	6.89
2	50	100	6.89
3	80	200	13.79
4	100	200	13.79
6	150	500	24.13

For larger disk sizes, consult BS&B Safety Systems, Inc. or BS&B Safety Systems Ltd.

Maximum burst pressure 2000 psig (137.89 barg).

\*values are based on using a free vented outlet flange with no down stream piping.

## Operating Temperature Range

The sensor is suitable for a wide operating temperature range, minimum -40°F (-40°C) to maximum 400°F (204°C).

## Electrical Specification

Maximum current 250 mA

Maximum voltage 24Vdc

## Components

Each sensor is supplied with a 12 inch (30cms) two-conductor cable. The sensor is supplied without an electrical connector.

A mechanical \*Vis-U-Tec™ with the above features providing only a visual warning of a ruptured disk may also be supplied.

\*Aluminum piston

*Products, specifications and all data in this literature are subject to change without notice. Questions regarding product selection and specifications for specific applications should be directed to BS&B Safety Systems, inc. or BS&B Safety Systems Ltd.*

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