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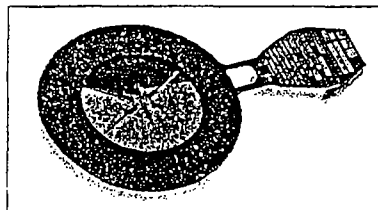


READ  
BEFORE USE



## AV and AVV Rupture disks

**Warning:** Rupture disks are intended to provide a pressure relief opening. This rupture disk is designed to burst at a specified pressure and temperature, thereby relieving excess pressure or preventing excessive vacuum in a system. This rupture disk must be properly installed and safely vented in order to avoid bodily injury, damage to property, pollution and loss of product. BS&B Safety Systems, Inc and BS&B Safety Systems Ltd. supply disks selected by their customers, which are manufactured in reliance upon information and specifications supplied by the customer. BS&B Safety Systems, Inc and BS&B Safety Systems Ltd. are not liable for any damage resulting from improper installation, improper system design, unsafe venting or other factors beyond BS&B Safety Systems, Inc and BS&B Safety Systems Ltd. control. Do not locate the rupture disk device where personnel, equipment or property will be exposed to released product and pressure through the disk. Handle carefully, disk and tag may have sharp edges.



Order Replacement Disk by Lot Number  
(Marked on disk's tag)

### BEFORE YOU INSTALL A RUPTURE DISK

#### 1. Inspect companion pipe flanges.

Ensure flange-mating surfaces are free of foreign materials, pits, dust or grit which can damage the rupture disk affecting disk performance or cause leakage.

Ensure pipe flanges are parallel to a sufficient standard that will permit proper functioning of the rupture disk.

#### 2. Inspect rupture disk

Handle the rupture disk carefully, holding the disk by the tag and the perimeter only. Examine both the sides of the disk checking the gasket and metal surface for nicks, dents, scratches and foreign material, which can damage the disk, cause leakage or affect the burst pressure.

- Do not install a damaged disk. Installation of a damaged disk may result in premature bursting of the disk.
- Do not remove rupture disk from packaging for inspection until ready to install.
- The rupture disk should not be subjected to excessive structural bending stresses through the pipe flanges.

- The user is cautioned to select gasket materials adequate for the service conditions.
- Check the burst pressure and temperature of the disk to that required by the application. An incorrect burst pressure may result in a premature disk failure or the design pressure of the vessel being exceeded.

### Safety Precautions - Caution

- Only competent trained personnel should install rupture disk safety devices in accordance with these installation instructions.
- Consider Recoil. Provide adequate support for piping and connection to absorb recoil /reaction forces when the disk ruptures. Recoil is the force the system will experience upon disk rupture. Recoil (lbs.) is approximately twice the disks burst pressure (psig) times the relief area (in<sup>2</sup>). If the discharge is free ventilated a baffle plate may be mounted downstream of the outlet companion pipe flange with extra length studs to minimize recoil.
- If disks are liquid or steam cleaned and a high velocity particle spray or jet is used, take care not to damage the disk.
- Where a disk is mounted upstream of a pressure relief valve or safety valve ensure that the opening of the disk does not interfere or effect the performance of the valve.
- When a disk ruptures, ensure that the opening of the disk does not affect the performance of downstream equipment. The bursting of the disk may result in a pressure shock wave.
- The rupture disk must not be modified in any way except with the approval of BS&B Safety Systems, Inc or BS&B Safety Systems Ltd. Unapproved modification may effect pressure containment and/or disk performance. Failure to obtain such approval voids the warranty on this product.
- Rupture disk material must be compatible with your process.