

Rupture Disc Storing and Handling Procedures

Rupture discs are pressure-sensitive safety devices. They are installed on pressurized equipment to protect plant, people and processes from catastrophic injury and damage. It is essential to store and handle them correctly to prevent damage and ensure they will operate as intended once installed. Please consider the key steps outlined below to ensure safe storage and handling of your rupture discs.

Storage

The shelf life and condition of a rupture disc depends on how you store it. Rupture discs should be kept in a safe, dry, and clean environment, such as a warehouse or storeroom. They should ideally be stored at ambient temperature and should never be subjected to extremes of either hot or cold temperature.

We recommend you always leave the rupture disc in its original packaging right up until the moment it's installed.

Avoid placing weights on top of rupture disc boxes, as this could crush the box and damage the disc inside. For similar reasons, do not stack rupture discs or holders on top of each other.

Handling

Rupture discs are fragile and must be handled with extreme care. In particular, care must be taken that nothing comes into contact with the rupture disc dome or membrane. Read the installation instructions thoroughly before removing the rupture disc from its box. These are available on our website or you can contact us directly to request them.

Always handle a rupture disc by its outer edge or support ring (where fitted). Never pick up, hold, or carry the disc by its dome or tag. The tag is there to provide technical and safety information – it is not a handle. Using the tag as a handle risks causing damage to the disc's dome, any composite linings, and other components, such as an actuator for our Flo-Tel burst sensor.

Before installing a new disc, it is important to visually inspect the rupture disc for dents, scratches, and other damage. If there is any doubt that a disc may have been damaged, do not install it. Make sure the seal area surfaces are clean, free from debris and scratches. Any dirt or debris on the seal faces could cause leakage.

Checklist

Yes

Storage

- Store in a safe, dry, clean enclosure ☐
- Avoid extreme temperatures ☐
- Store in original packaging until required for use ☐
- No weights on top of boxes ☐
- Read installation instructions before removing the disc from its box ☐

Handling

- Handle the rupture disc by its outer edge or support ring ☐
- Make sure nothing comes into contact with the disc dome or membrane ☐
- The tag is not a handle! ☐
- Inspect the disc for damage before installation ☐
- Make sure the seal area is clean ☐
- If in any doubt, do not install the disc ☐

If you are ever unsure about whether a disc has been stored or handled correctly and is safe to use, or would like further training on this topic, we'll be happy to help. Please reach out using the contact details above or contact your rep for further information.