

Is the gasket I use important to the rupture disks performance?

YES – as noted below, not only is the gasket material important, the dimensions of the gasket are also very crucial to the performance of a ZOOK Graphite Rupture Disk.

What gasket material(s) should not be used?

ZOOK does not recommend using a spiral wound type gasket. This type of gasket can damage the sealing surface of the rupture disk. A spiral wound gasket could also cut the liner material on our Duplex type disks – damaging the corrosion barrier.

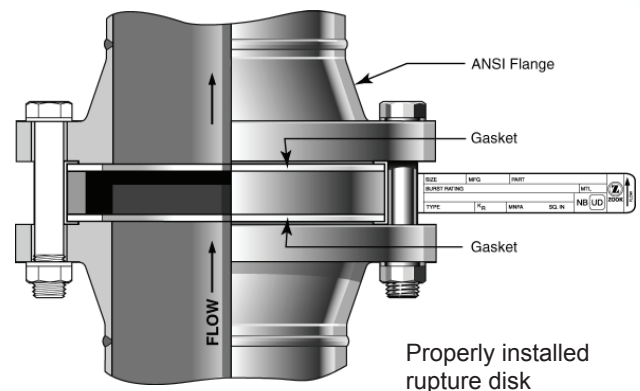
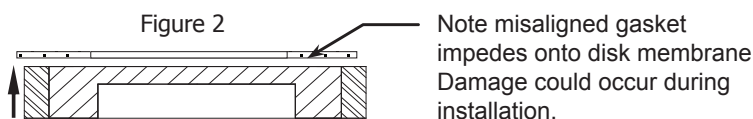
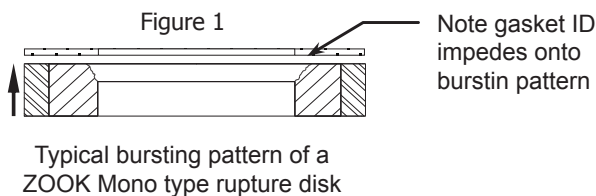
Most all other gasket materials are acceptable for use on all ZOOK disk types. There are some restrictions to the materials that can be used on a graphite disk supplied with a Zensor® – “soft” and electrically conductive gasket materials are not available with this option.

Why is the gasket dimension important?

The membrane on a ZOOK rupture disk controls when the disk ruptures. If the gasket being used impedes onto this surface, or is too close to the inside diameter of the rupture disk, it could impose an undesirable stress onto the disk membrane causing premature failure.

As a MONO disk ruptures it will flare out towards the disk OD. If the installed gasket overlaps this area, it could add support to the membrane and cause the disk to relieve at a higher pressure than it is rated for – see Figure 1.

If a gasket with the same inside diameter as the rupture disk is used, and is slightly misaligned during installation, the membrane may become damaged during torquing and gasket compression – see Figure 2.



FAQs | Rupture Disk Gaskets

How can I assure that the gaskets I use are correct?

Because proper gasket dimensions are critical to disk performance, use only gaskets that are sized to dimensions specified in the ZOOK installation guide provided with each rupture disk.

ZOOK stocks a wide variety of standard gasket materials that can be supplied attached to the rupture disk. Alternate materials are available upon request and rarely delay the lead time on standard delivery orders.

Determination of process media compatibility with gasket material is the responsibility of the user.



FAQ'S RUPTURE DISK GASKETS_042018

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