

# ZOOK®

## Skid-Safe Unit

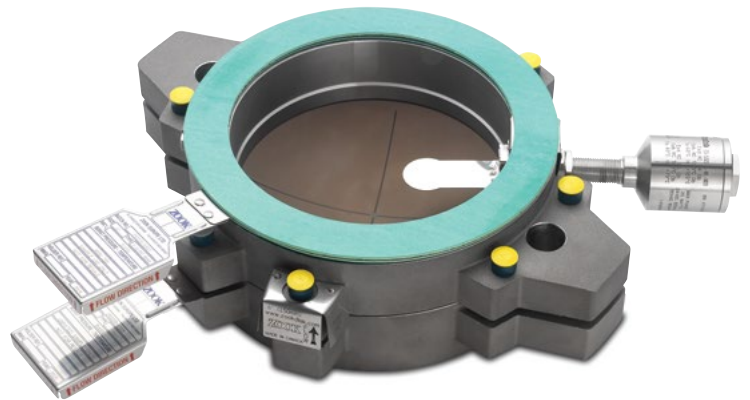


**Safety through knowledge and performance.**



## Skid-Safe Unit

Reduce the number of premature failures and unsafe operations on well-head skids with ZOOK's Skid-Safe Unit; a unique pressure protection system for the Oil and Gas industry.



### ZOOK has designed a revolutionary unit ready for immediate installation

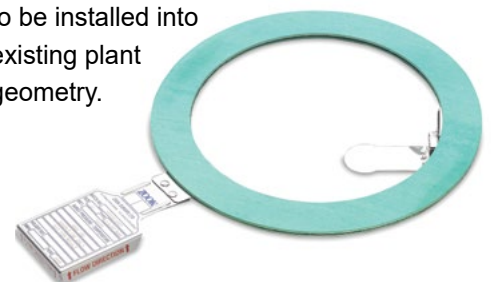
All too often damage to pressure relief devices can result in situations with the rupture disk failing below rated pressure or producing an ineffectual burst whereby the vent area is seriously reduced by the rupture disk malfunction. To undertake maintenance on a rupture disk assembly in remote areas is a highly costly operation and a serious source of inconvenience.

### What are the components of the Skid-Safe unit?

1. Reverse Acting Disk
  2. RAH Pre-Torque Holder
  3. Z-Alert non-intrusive proximity switch & magnetic sensor
- The RA reverse acting disk comes in four different types, a low pressure RA4, a medium pressure RA6 and a higher pressure RA8 all of these suitable for both liquid and gas service and are solid metal non-scored designs. The fourth member of the RA disk family is the RAX,

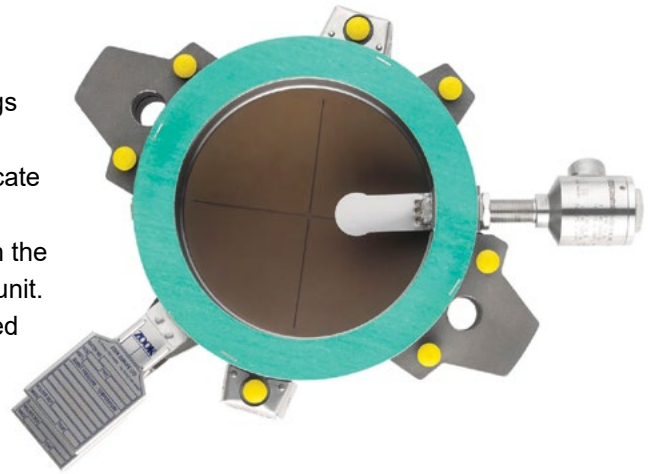
a scored disk suitable for gas service only.

- The RAH "Skid-Safe" pre-torque holder ensures the domed membrane does not extend beyond the holder connection face ensuring that protection is given.
- There is no one fixed height to the assembly and various dimensions can be achieved to allow the Skid-Safe unit to be installed into existing plant geometry.



**The Skid-Safe unit provides numerous technical and commercial advantages compared to conventional alternatives:**

- Fully assembled and ready for immediate installation between flanges, which reduces installation time and assembly difficulties
- Reverse acting disk has full dome membrane protection from the RAH holder
- Skid-Safe unit can be easily installed using integral flange bolt holes
- Self-centralization of the Skid-Safe unit within the pipework
- Specific integral flange guide holes ensure the Skid-Safe unit cannot be installed into non-compatible flange ratings
- Installation only needs one engineer. Simply hang or locate one flange bolt through the pipework flange and through the guide hole in the Skid-Safe unit.
- Z-Alert detect device is tested for function and continuity during assembly as part of a comprehensive Inspection and test plan.



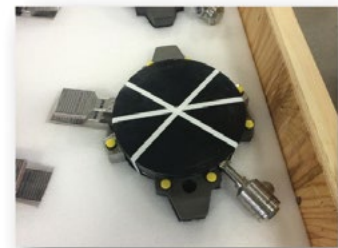
- Z-Alert detect device is the most current technology of non-intrusive rupture disk detection devices and is included in the Skid-Safe unit.
- Z-Alert proximity switch, is the counterpart to the Z-Alert detect device and is remote to the rupture disk thus ensuring that the operation of the rupture disk is not compromised by the addition of extra disk components. This is important since other magnetic burst detection systems can add significantly to the assembly Kr value.



**Additional Technical Features**

- Various disk materials available
- Holder available in a variety of flange ratings and materials including Carbon Steel, Stainless Steel, NORSOK certified Super-Duplex and Duplex amongst others
- Dual certification of the disk to ASME UD and PED CE available
- Proximity switch certified to ATEX, IP66 to 68, UL, IECExd, TRCU, and SIL2
- Various gasket materials available
- Skid-Safe unit arrives in

internationally accepted packaging and can be taken directly from the crate and installed immediately



**The 'Skid-Safe' unit is the latest ZOOK Innovation in rupture disk technology promoting a safer, more reliable and cost effective solution for the fracking LNG industry.**



**Safety through knowledge and performance.**



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