



Pressure Relief Solutions for the Power Supply Sector



Safety through knowledge and performance.



Over pressure solutions for a wide spectrum of power transmission and distribution applications.



ZOOK is a recognized global leader in the manufacturing of metal and graphite rupture disk solutions for the power supply sector.



ZOOK offers specific customized solutions for the power industry:

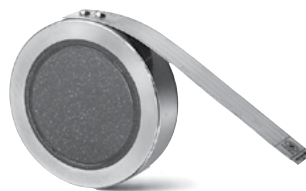
Gas Insulated (SF6) and Oil Impregnated Paper Insulated Switchgear

Switchgear manufacturers utilize rupture disks to alleviate pressure build-up in switchgear or arcing housing from either heat or radiation. Overpressure can also be found in conductors and cabinets. ZOOK manufacturers both graphite and metal rupture disks for custom solutions in the switchgear market capable of meeting the very stringent quality and leak rate requirements for these applications.



Lithium Batteries

Low pressure rupture disks, such as reverse acting RA4 metal disks and custom graphite disks can be used for pressure relief in lithium batteries.



Transformers and Generators

Rupture disks are used at the head of transformers and tanks by releasing pressure and protecting them from overpressure such as explosions occurring.

We recommend the larger ARD / CV-F style for replacing 'lead sheet' disks on the LP stage of the steam turbines. Large rupture disks that can withstand full vacuum service are also used on steam condenser units.

For smaller scale biofuel energy generation ZOOK can provide insulated composite disks capable of high temperature service to protect exhaust gas systems. ZOOK Explosion vents and ultra low pressure rupture disks can protect bio-gas storage vessels and HV switching / connection areas.



Over pressure protection is a necessity in the power supply sector. Pressure relief design should be customized to each specific application:

- Switchgears
- Lithium batteries
- Nuclear
- Power applications
- Transformers
- Generators
- Circuit breakers
- Process steam control



Geothermal

In Geothermal applications, graphite disks and composite products can be used as well as larger reverse or scored forward acting products. Inconel 625 is highly preferred for the metal disks and is available from ZOOK.

PRV are normally fitted with rupture disks to form a leak tight seal at the valve inlet to protect the PRV from corrosion, scaling and plugging in the brine steam generation processes. The addition of a rupture disk isolates the PRV from the process media reducing the need for frequent and costly maintenance and keeps plants running in optimal conditions.

Wind Farms

ZOOK rupture disks can be used in the HP hydraulics of wind farms. We recommend custom welded assemblies (CWA) for custom fittings and connections for these stringent applications.

ZOOK's CWA department is dedicated to the design and development of customized rupture disk assemblies for specific customer applications.

CWA are manufactured with the highest quality control:

- 100% Helium leak testing
- Burst testing
- Weld & body pressure testing
- Digital inspection of threads & body dimensions
- Ultra sonically cleaned
- 100% material traceability



Nuclear Power

Rupture disks are required on heater drain tanks at nuclear type power plants. Forward acting scored are recommended.



ZOOK manufactures over pressure solutions worldwide for low, medium and high voltage equipment.



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