



Rupture Disks for the Mining Industry

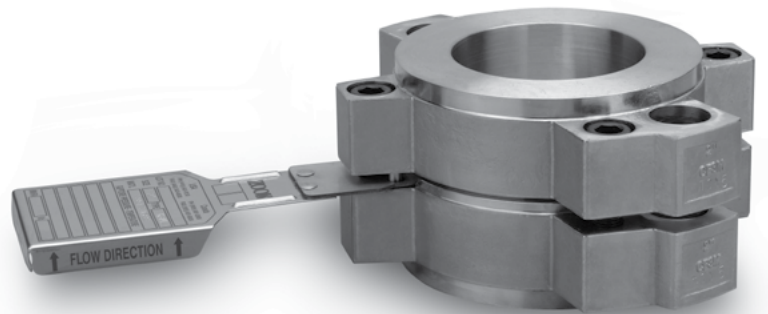


Safety through knowledge and performance.



Pressure Relief and Blasting Process Solutions

ZOOK is a global leader with over 90 years of manufacturing expertise of high quality metal & graphite rupture disks and other pressure relief products for the mining industry.



ZOOK offers many solutions for pressure relief and blasting in the mining industry.

Slurry Applications

Slurry applications present the pressure relief industry with unique challenges:

- Fluid streams with high solid levels and attendant erosion
- Potential for solidification in dead flow areas
- Esoteric and corrosive chemical combinations
- Requirement for a continuous operation to be maintained
- High pressures and demanding cycling conditions

Any release of such material is subject to environmental scrutiny so

it is crucial that the highest level of sealing and reliability is available to the mining industry.

ZOOK Product Solutions for Slurry Applications

Double Disk Design

By using double disk designs where two disks are fitted in series continuity of plant operation is enhanced even in highly aggressive conditions as the secondary disk remains available to ensure safe operation is maintained in the event of corrosive or erosive damage to the primary disk allowing maintenance to be programmed to suit plant operation.

Reverse and Forward-Acting Holders and Disks

Pre-Torque Holder Design allows removal of the assembly from the piping system for inspection without disturbing the seal integrity of the rupture disk.

Double Disk Design



Rupture Disk with a Safety Valve

A rupture disk used with a safety valve will protect the valve by creating a barrier between the valve and the process.

Note: Burst detection options are available to allow remote monitoring of any rupture event.

ZOOK's worldwide team of pressure relief experts recognize the challenges in providing safe and reliable rupture disks for the mining industry.

- Difficult operating environment
- Challenging processes and chemistry
- Erosive and corrosive fluid streams
- Requirement for continuous operation to be maintained
- Remote and hostile locations
- Increasing need to be sensitive to the environment
- Demands of economic operation



Disk Types / Materials List

Disk Metal Types – Advanced non-fragmenting designs capable of high life cycles

- FAX
- RA series

Disk Materials

- Hastelloy
- Inconel
- Titanium
- 316
- Tantalum
- Nickel
- Monel

Note: Optional PTFE and other liner materials available

Materials – Holders

- Most engineering alloys including Duplex and Super Duplex stainless steel grades, Titanium, Hastelloy and others on request
- Special coatings also available

Blasting Operations

Graphite rupture disks are traditionally used in the blasting process. ZOOK leads in standardising on fine grain graphite as the base disk material, superior in consistency to standard materials.

Installation safety, reliability and performance can be further enhanced with ZOOK's armor rings which eliminate pipeline stresses from affecting the disk.

For a complete one box installation package we also offer a selection of approved dimension gaskets.



Graphite

- INVERTED (failsafe) and MONO disk in ZOOK graphite material
- Optional armor rings for enhanced safety
- Optional PTFE and other liner materials available

Certification and Approvals

ZOOK locations are approved to all major manufacturing and quality codes for rupture disks. Third party inspections, special qualifications and approvals are also available.



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