

ZOOK®



MINING

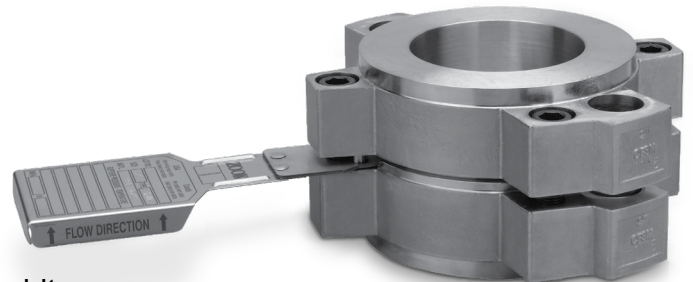
Rupture Disks for the Mining Industry



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

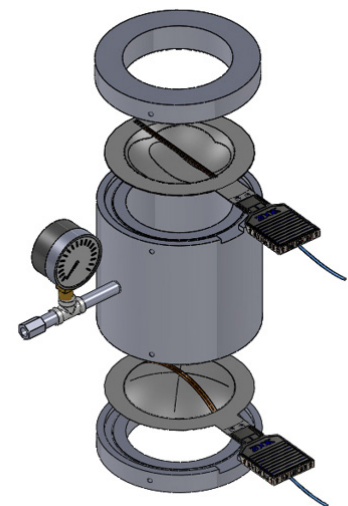
Double Disk Design

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

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.

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.

ZOOK is committed to finding pressure relief solutions for our customers that maximize their productivity and performance while keeping them safe. ZOOK is a global market leader with over 90 years of manufacturing expertise of high quality metal & graphite rupture disks and other pressure relief products. ZOOK has global locations in the USA, United Kingdom, Canada and Malaysia, with state-of-the-art manufacturing facilities in Canada and the USA.

Our products are sold in 65+ countries and to-date have over 6,000 customers buying our products worldwide.

We are dedicated to investing heavily in the latest technology and production to stay competitive in the marketplace, and are able to offer comprehensive solutions to the selection and sizing of products best suited for each customer application.

SERVING AMERICA, CENTRAL & SOUTH AMERICA

16809 Park Circle Drive
Chagrin Falls, Ohio 44022
United States

Toll Free: +1 800 543 1043
Phone: +1 440 543 1010
E-mail: sales@zookdisk.com
Website: www.zookdisk.com

SERVING EUROPE, MIDDLE EAST & AFRICA

Navigation House, Bridge Street
Killamarsh, Sheffield S21 1AL
United Kingdom

Phone: +44 (0) 1909 560999
E-mail: sales.europe@zookdisk.com
Website: www.zookdisk.com

ALL OTHER INTERNATIONAL INQUIRIES

E-mail: sales@zookdisk.com

SERVING CANADA

4400 South Service Road
Burlington, Ontario L7L 5R8
Canada

Toll Free: +1 800 370 6057
Phone: +1 905 681 2885
E-mail: sales.canada@zookdisk.com
Website: www.zookdisk.com

SERVING ASIA PACIFIC

Menara LGB TTDI
Unit 6-3A, Level 6, Menara LGB,
No. 1, Jalan Wan Kadir, Taman Tun Dr. Ismail,
60000 Kuala Lumpur,
Malaysia

Phone: +603 2706 0098
E-mail: sales.asia@zookdisk.com
Website: www.zookdisk.com



MINING_072022

