

ZOOK®

ONE source for ALL your Rupture Disk needs...

- Holders
- Gaskets
- Burst Sensors
- Alarm Monitoring Systems
- Transportation Disks
- Sanitary Disks
- Explosion Vent Panels
- Extruder Barrels
- Special Applications

Service Personnel
are available...

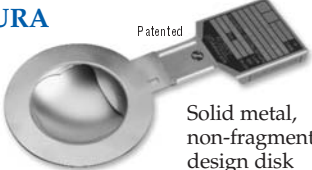
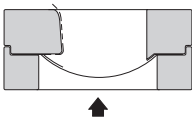


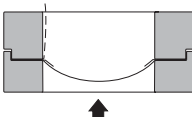


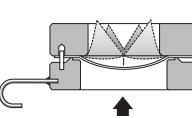


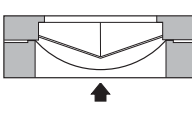

24 hrs/day

7 days/wk

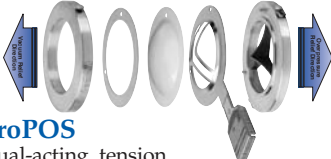
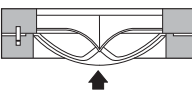

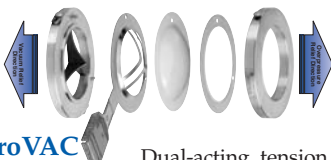
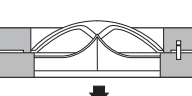

365 days/yr







Reverse Acting (Compression-Loaded) Metal Rupture Disks

| Disk Series | Sizes in./mm | Pressures psig/bar | Maximum Operating Ratio | Vacuum Support Required | UD ASME COMPLIANT | Seat Configuration Flow Direction | Standard Mating Holder |
|--|--------------------|--------------------------|-------------------------------|-------------------------------|-------------------------|---|---|
| URA  <p>Patented Solid metal, non-fragmenting design disk</p> | 1 – 14 25 – 350 | 8 – 1,800 0.55 – 124 | 90% | NO | Liquid and Gas | Flat  | URA-I  |
| RLP  <p>Solid metal, non-fragmenting design disk</p> | 1 – 12 25 – 300 | 2 – 100 0.14 – 6.90 | 90% | NO | Liquid and Gas | Flat  | RLP-I  |
| SRA  <p>Solid scored metal, non-fragmenting design disk</p> | 1 – 20 25 – 500 | 20 – 1,000 1.38 – 69 | 90% | NO | Gas only | Flat  | SR7A  |
| SB  <p>Solid metal, non-fragmenting design disk</p> | 1 – 20 25 – 500 | 10 – 1,800 0.69 – 124 | 90% | NO | Gas only | Flat  | SB7A  |

Ultra-Low Pressure Rupture Disks

| Disk Series | Sizes in./mm | Pressures | | Maximum Operating Ratio | | UD ASME COMPLIANT | Seat Configuration Flow Direction | Standard Mating Holder |
|--|--------------------|---------------------------|---------------------------|--|--|-------------------------|---|---|
| | | positive | negative | positive | negative | | | |
|  <p>ProPOS Dual-acting, tension loaded, minimal fragmenting design</p> | 3 – 12 80 – 300 | 1" of water column to 30" | 2 psig to 150 psig | -0- w/TFE girdle 20% w/316SS girdle | 80% | NO | Flat  |  |
|  <p>ProVAC Dual-acting, tension loaded, minimal fragmenting design</p> | 3 – 12 80 – 300 | 2 psig to 150 psig | 1" of water column to 30" | 80% | -0- w/TFE girdle 20% w/316SS girdle | NO | Flat  |  |

Sanitary Rupture Disks

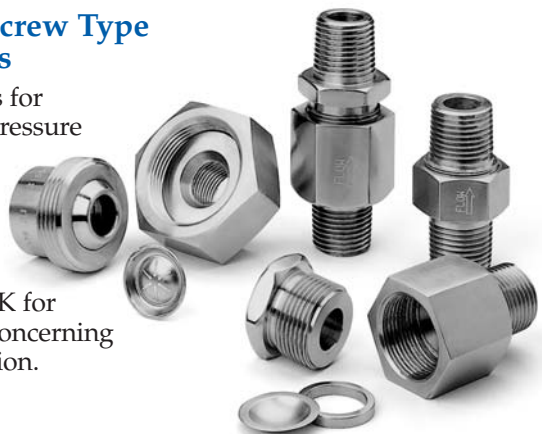
| Disk Series | Sizes in./mm | Pressures psig/bar | Maximum Operating Ratio | Vacuum Support Required | UD ASME COMPLIANT | Features | Disk Mounting Flow Direction Standard sanitary fittings |
|---|-------------------|-------------------------|-------------------------------|---|-------------------------|---|---|
| SD  <p>Graphite rupture disk</p> | 1 – 4 25 – 100 | 1.5 – 50 0.10 – 3.45 | 90% | Contact ZOOK on pressures less than 25 psig | Liquid and Gas | <ul style="list-style-type: none"> FEP liner on process side Mounts using standard sanitary style O-Ring gasket |  |
| URAS / RLPS  <p>Solid metal, non-fragmenting design disk</p> | 1 – 4 25 – 100 | 2 – 150 0.14 – 10.34 | 90% | NO | Liquid and Gas | <ul style="list-style-type: none"> Standard black Buna-N gasket supplied with disk |  |

Forward Acting (Tension-Loaded) Metal Rupture Disks

| Disk Series | Sizes in./mm | Pressures psig/bar | Maximum Operating Ratio | Vacuum Support Required | UD ASME COMPLIANT | Seat Configuration Flow Direction | Standard Mating Holder |
|--|-------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------|---|--|
| SFAZ  <p>Solid metal scored, non-fragmenting design disk</p> | 1/2 – 24 13 – 600 | 15 – 60,000 1.03 – 4138 | 85% | Contact ZOOK | Gas only | Flat  | UHZ  Flat seat insert |
| D  <p>Composite metal, fragment resistant design disk</p> | 1/2 – 24 13 – 600 | 3 – 2,000 0.21 – 138 | 80% | YES | Liquid and Gas | 30° Angular  | 7A  Bolted type angle seat |
| FD  <p>Composite metal, fragment resistant design disk</p> | 11/16 – 44 17 – 1117 | 3 – 2,000 0.21 – 138 | 80% | YES | NO | Flat  | UHZ  Flat seat insert |
| PB  <p>Solid metal, fragmenting design disk</p> | 1/4 – 24 6 – 600 | 3 – 50,000 0.21 – 3448 | 70% | YES | Liquid and Gas | 30° Angular  | 7A  Bolted type angle seat |
| FPB  <p>Solid metal, fragmenting design disk</p> | 1/8 – 44 3 – 1117 | 3 – 20,000 0.21 – 1379 | 70% | YES | NO | Flat  | UHZ  Flat seat insert |
| ARD  <p>Composite metal, fragment resistant design disk</p> | 2 – 44 50 – 1117 | 1 – 60 0.07 – 4 | 50% | YES | NO | Flat  | Mounts between standard companion flanges – no holder required |

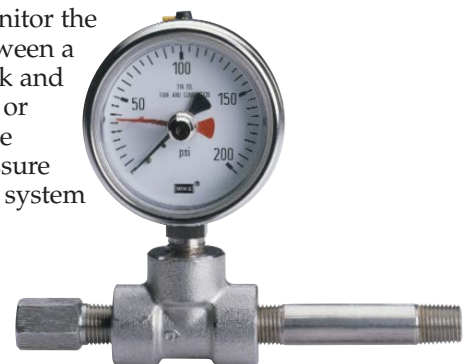
Union and Screw Type Disk Holders

...reusable units for use on high pressure equipment, gas cylinders, laboratory equipment, autoclaves. Contact ZOOK for information concerning your application.



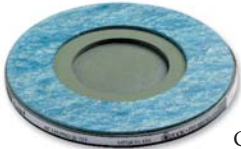



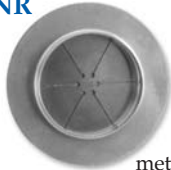


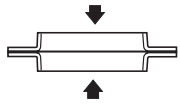

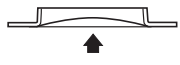




Accessory Kit

...used to monitor the air gap between a rupture disk and relief valve or the presence of backpressure in a header system



Transportation Rupture Disks

| Disk Series | Sizes in. | Standard Pressures psig @ 72°F | Maximum Operating Ratio | Vacuum Support Required | UD ASME COMPLIANT | Features | Disk Mounting Flow Direction |
|--|-----------|--------------------------------|-------------------------|-------------------------|-------------------|---|--|
| RailCar  Graphite rupture disk | 2 | 60, 100, 165 | 90% | NO | NO | <ul style="list-style-type: none"> • PTFE & Viton liner on process side • Carbon Steel Armor • TFE coated green • Non-Asbestos gasket on vent side | 2" AAR metal seated safety vents  |
| AcidCar  Graphite rupture disk | 2 | 60, 100, 165 | 90% | NO | NO | <ul style="list-style-type: none"> • PTFE & Viton liner on process side • Carbon Steel Armor • TFE coated green • Non-Asbestos gasket on vent side | 2" AAR rubber covered safety vents  |
| TD  Graphite rupture disk | 2, 3, 4 | 30, 35, 40, 45, 50 | 90% | NO | YES | <ul style="list-style-type: none"> • PTFE liner on process side • Carbon Steel Armor • TFE gasket on pressure side • Non-Asbestos gasket on vent side • TFE coated green | Standard ASME B16.5 Class 150 flanges  |
| TCP-NR  Composite metal, fragment resistant design disk | 2 | 30, 45, 52, 60, 75, 100, 165 | 50% | NO | NO | <ul style="list-style-type: none"> • 316SS construction w/PFA seal • 316SS locating ring on vent side | Fits standard tank car safety vents  |
| TCP-R  Composite metal, fragment resistant design disk | 2 | 30, 45, 52, 60, 75, 100, 165 | 50% | NO | NO | <ul style="list-style-type: none"> • 316SS construction w/PFA seal • 316SS locating ring on both sides | Fits standard tank car safety vents  |
| TCP-S  Solid metal scored, non-fragmenting design disk | 2 | 30, 45, 52, 60, 75, 100, 165 | 85% | NO | NO | <ul style="list-style-type: none"> • 316SS construction w/PFA seal • 316SS locating ring on vent side | Fits standard tank car safety vents  |
| ICP  Solid metal scored, non-fragmenting design disk | 2-1/2 & 3 | 54.4, 63.8 (68°F & 140°F) | 85% | NO | NO | <ul style="list-style-type: none"> • Nickel disk construction • PTFE gasket & PFA liner on process side • 316SS locating ring on vent side | Standard ASME B16.5 Class 150 & ISO flanges  |




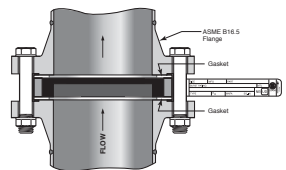

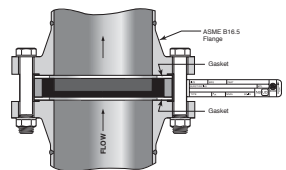

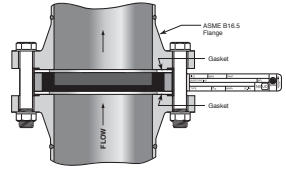

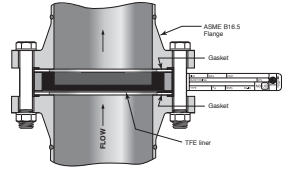

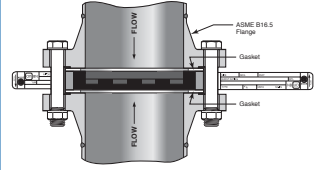

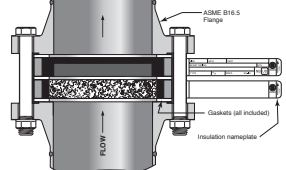
ZOOK®
USA • CANADA • EUROPE

Service Personnel are available 24.7.365

To reduce Your Plant Downtime when an emergency occurs...

call **800.543.1043**

Graphite Rupture Disks

| Disk Series | Sizes in./mm | Pressures psig/bar | Maximum Operating Ratio | Vacuum Support Required | UD ASME COMPLIANT | Mounts directly between standard ASME B16.5 Class, DIN, or JIS flanges Flow Direction |
|---|------------------------|---------------------------|-------------------------------|---|-------------------------|---|
| MONO  ...best choice for low and intermediate burst ratings | 1/2 – 24 13 – 600 | 0.25 – 1,000 0.02 – 69 | 90% | Yes on pressures less than 25 psig | Liquid and Gas |  |
| INVERTED  ...best choice for higher burst ratings | 1/2 – 24 13 – 600 | 0.25 – 1,000 0.02 – 69 | 90% | Contact ZOOK on pressures less than 25 psig | Liquid and Gas |  |
| FS-INVERTED  ...best choice for highly corrosive and broad temperature range applications | 1/2 – 24 13 – 600 | 1.00 – 1,000 0.07 – 69 | 90% | Contact ZOOK on pressures less than 25 psig | Liquid and Gas |  |
| DUPLEX  ...best choice for highly corrosive applications | 1/2 – 24 13 – 600 | 0.25 – 1,000 0.02 – 69 | 90% | Contact ZOOK on pressures less than 25 psig | Liquid and Gas |  |
| TWO-WAY  ...dual rated to protect against two different pressures in opposite directions | 1-1/2 – 24 40 – 600 | 0.25 – 1,000 0.02 – 69 | 90% | N/A | NO |  |
| INSULATED UNIT  ...for temperatures exceeding 430°F (221°C) to 700°F (371°C) | 1 – 24 25 – 600 | 0.25 – 1,000 0.02 – 69 | 90% | Contact ZOOK on pressures less than 25 psig | NO |  |

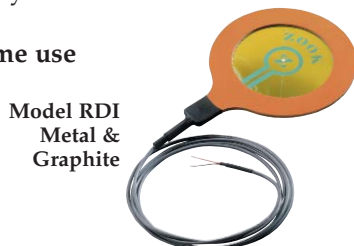
Burst Sensors *Suitable for use in hazardous locations*

Re-usable



...fits easily into existing pipe systems

One time use



Integral Indicators



...ideal for a wide range of applications

Alarm Monitoring System



...optional leak detection device for BA and RDI Burst Sensors

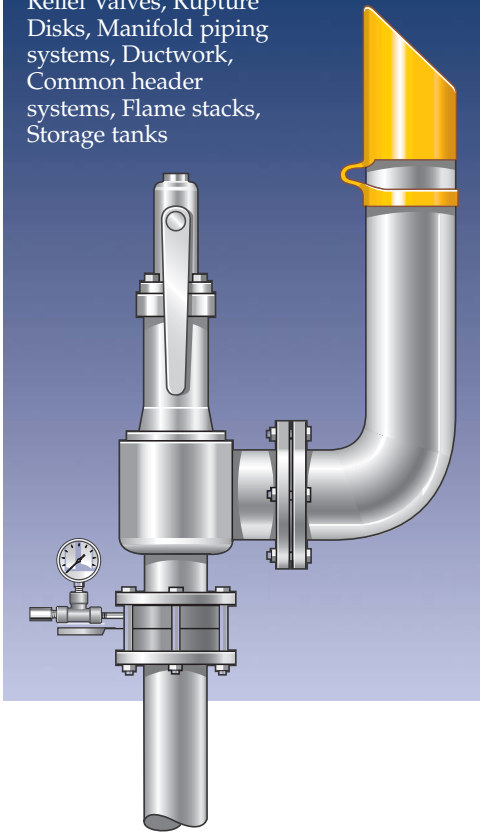
...ZM2 alarm monitor designed to remotely detect the condition of two rupture disks in service



Pipe End Covers

Applications

Protection of Safety Relief Valves, Rupture Disks, Manifold piping systems, Ductwork, Common header systems, Flame stacks, Storage tanks



The products shown in this bulletin will improve your operating efficiency, protect equipment and personnel from the effects of overpressurization in static and dynamic pressurized systems, and are immediately available.

Credits
Viton – TM DuPont
TD, SD – TM ZOOK Enterprises, LLC

Explosion Vent Panels

...provide over-pressure relief to minimize structural or mechanical damage caused by expanding gases



Extruder Barrels

...designed for over-pressure protection of plastic extrusion processes



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