

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...


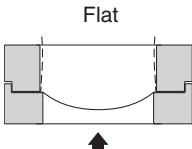





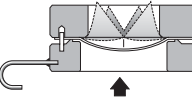

24 hrs/day

7 days/wk






365 days/yr



Reverse Acting (Compression-Loaded) Metal Rupture Disks

Disk Series	Sizes in./mm	Pressures psig / bar	Standard Operating Ratio ¹	Vacuum Support Required	UD ASME COMPLIANT	Seat Configuration Flow Direction	Standard Mating Holder
RA4  Solid metal, non-fragmenting design disk	1 – 12 25 – 300	2 – 40 0.14 – 2.76	90%	NO	Liquid and Gas	 Flat	RAH  Pre-torque design
RA6  Solid metal, non-fragmenting design disk	1 – 12 25 – 300	12 – 200 0.83 – 13.79	90% ²	NO	Liquid and Gas		
RA8  Solid metal, non-fragmenting design disk	1 – 12 25 – 300	26 – 1,000 1.79 – 68.97	90% ²	NO	Liquid and Gas		
RAX  Solid scored metal, non-fragmenting design disk	1 – 12 25 – 300	27 – 1,000 1.86 – 68.97	90% ²	NO	Gas only		
SRA  Solid scored metal, non-fragmenting design disk	1 – 20 25 – 500	20 – 1,000 1.38 – 69	90%	NO	Gas only	 Flat	SR7A 

Sanitary Rupture Disks

Disk Series	Sizes in./mm	Pressures psig / bar	Standard Operating Ratio ¹	Vacuum Support Required	UD ASME COMPLIANT	Features	Disk Mounting Flow Direction Standard sanitary fittings
SD  Graphite rupture disk	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 	
RLPS  Solid metal, non-fragmenting design disk	1 – 4 25 – 100	4 – 83 0.27 – 5.72	90% ²	NO	NO	<ul style="list-style-type: none"> Standard black Buna-N gasket supplied with disk 	
RAUS  Solid metal, non-fragmenting design disk	1 – 4 25 – 100	18 – 300 1.24 – 20.69	90% ²	NO	Liquid and Gas	<ul style="list-style-type: none"> Standard black Buna-N gasket supplied with disk 	

¹ Standard operating ratio applies to the marked rating on the disk tag on disks marked above 40 psig.

Contact ZOOK for operating ratio on disks marked below 40 psig.



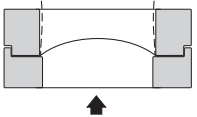
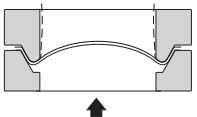


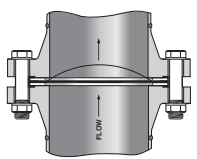
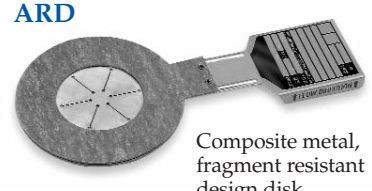
² Higher operating ratio may be available upon request.



ZOOK®

Service Personnel are available 24.7.365
 To reduce Your Plant Downtime
 when an emergency occurs...
 call **800.543.1043**

Forward Acting (Tension-Loaded) Metal Rupture Disks


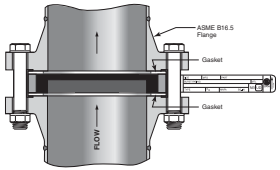

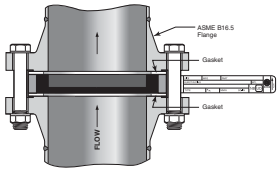

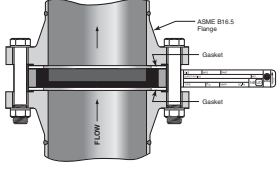

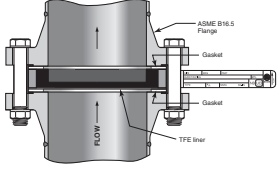

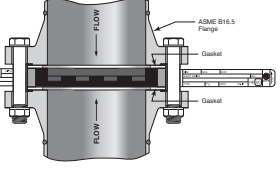

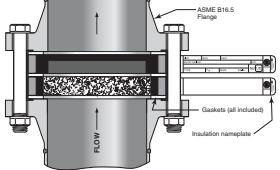
Disk Series	Sizes in./mm	Pressures psig/bar	Standard Operating Ratio ¹	Vacuum Support Required	UD ASME COMPLIANT	Seat Configuration Flow Direction	Standard Mating Holder
FAX  <p>Solid metal scored, non-fragmenting design disk</p>	1 – 12 25 – 300	45 – 1,500 3.10 – 103	85% ²	Contact ZOOK	Gas only	Flat 	FAH  Pre-torque design
FAC  <p>Composite metal, fragment resistant design disk</p>	1 – 12 25 – 300	3 – 1,500 0.21 – 103	80%	YES	Contact ZOOK		
SFAZ  <p>Solid metal scored, non-fragmenting design disk</p>	1/2 – 24 13 – 600	15 – 60,000 1.03 – 4138	85% ²	Contact ZOOK	Gas only	Flat 	UHZ  Bolted type insert design
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 insert design
FD/FDZ  <p>Composite metal, fragment resistant design disk</p>	11/16 – 44 17 – 1117	3 – 2,000 0.21 – 138	80%	YES	NO	Flat 	UH/UHZ  Bolted type insert design
FMD  <p>Composite metal, fragment resistant design disk</p>	2 – 36 50 – 900	1 – 1440 0.07 – 99.3	80%	YES	NO	Flat 	Mounts between standard companion flanges – no holder required
PB  <p>Solid metal, fragmenting design disk</p>	1/4 – 24 6 – 600	3 – 50,000 0.21 – 3448	70% ²	YES	Liquid and Gas	30° Angular 	7A  Bolted type insert design
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

¹ Standard operating ratio applies to the marked rating on the disk tag on disks marked above 40 psig.

Contact ZOOK for operating ratio on disks marked below 40 psig.

² Higher operating ratio may be available upon request.

Graphite Rupture Disks

Disk Series	Sizes in. / mm	Pressures psig / bar	Maximum Operating Ratio ¹	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	

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Contact ZOOK for operating ratio on disks marked below 40 psig.

² Higher operating ratio may be available upon request.

Burst Sensors *Suitable for use in hazardous locations*

Re-usable



Model BA
Metal & Graphite

...fits easily into existing pipe systems

One time use



Model RDI
Metal & Graphite

Integral Indicators



Metal

BI

Graphite



ZENSOR®

...ideal for a wide range of applications

Alarm Monitoring System





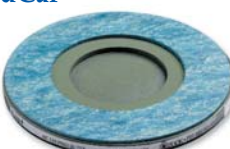










LD

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


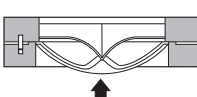


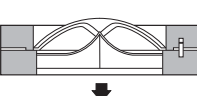
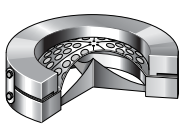
...ZAM Plus alarm monitor is designed to remotely detect the condition of up to eight rupture disks in service



Transportation Rupture Disks

Disk Series	Sizes in.	Standard Pressures psig @ 72°F	Standard Operating Ratio ¹	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 TCP-R  Composite metal, fragment resistant design disk	2	75, 100, 165	50%	NO	NO	<ul style="list-style-type: none"> • 316SS construction w/PFA seal 	Fits standard tank car safety vents  TCP-NR Fits standard tank car safety vents  TCP-R
TCP-S  Solid metal scored, non-fragmenting design disk	2	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 

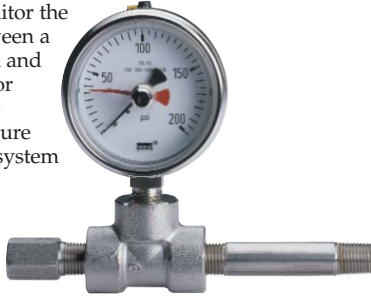
Ultra-Low Pressure Rupture Disks

Disk Series	Sizes in./mm	Pressures		Standard Operating Ratio ¹		UD ASME COMPLIANT	Seat Configuration Flow Direction	Standard Mating Holder
		positive	negative	positive	negative			
 ProPOS Dual-acting, tension loaded, design disk	2 – 14 50 – 350	1" of water column to 30"	2 psig to 150 psig	-0- w/TFE girdle 20% w/316SS girdle	80%	NO	Flat 	
 ProVAC Dual-acting, tension loaded, design disk	2 – 14 50 – 350	2 psig to 150 psig	1" of water column to 30"	80%	-0- w/TFE girdle 20% w/316SS girdle	NO	Flat 	

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Contact ZOOK for operating ratio on disks marked below 40 psig.

Accessory Kit

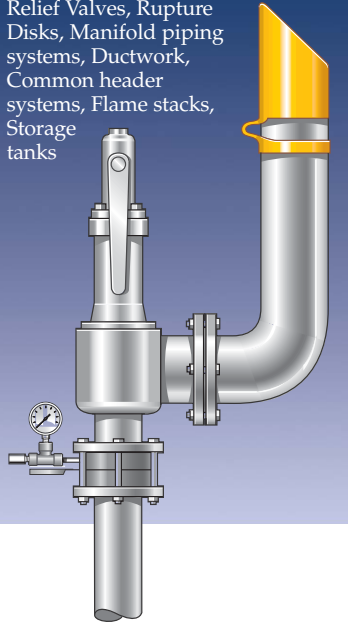
...used to monitor the air gap between a rupture disk and relief valve or the presence of backpressure in a header system



Pipe End Covers

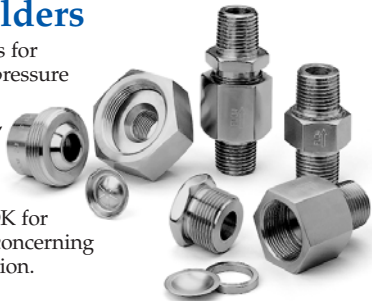
Applications

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



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.



Explosion Vent Panels

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



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.

Extruder Barrels

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



Credits

Viton – TM DuPont

TD, SD – TM ZOOK Enterprises, LLC



ZOOK Enterprises, LLC

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