

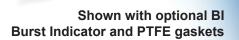
RLPS Series Sanitary Metal Rupture Disks

The RLPS Sanitary Disk is an extension of ZOOK's Reverse Acting Metal Rupture Disk design. Applications include: food processing, dairy, breweries, pharmaceutical, distilling, baking, canning, cosmetics, biotechnology, and petrochemical industries.

Features

- Provides over-pressure protection in sanitary piping system
- Ideal for high purity and corrosion resistance service
- Designed for Non-fragmentation
- Rugged, scoreless design offers higher cycle life
- Excels in liquid, gas, or two-phase applications
- 0% manufacturing range is standard
- Operating ratios up to 95% of the low end of burst tolerance
- Self supporting under full vacuum (with included support ring)
- Resists product buildup. Only the smooth convex side of the disk is exposed to the process medium
- Installs using industry standard Tri-clamp®/Tri-clover® fittings (NA-Connect mounting also available)
- Standard gasket materials: Black Buna-N,
 Black Viton, Black EPDM, White PTFE
 (see chart on reverse page for alternate materials)
- Sizes 1" (25mm) through 4" (100mm)
- CE, KOSHA and TÜV compliance available
- 3-A available for applicable materials and options. Contact ZOOK for more information





Options

RLPS-L* A process side **PFA Teflon liner** provides extra protection from corrosion or viscous process build-up

RLPS-R* A Vacuum Ring is required to withstand Vacuum

RLPS-BI* Equipped with ZOOK's Integral Burst Indicator

Note: *The maximum temperature rating of rupture disks supplied with liners and BI's is lower than the base disk material.

Torque-Rite Nut Features

- An audible "click" indicating correct torque setting
- Maintains the recommended constant 50 inch/pounds force
- Retrofits all sanitary clamps, 1" to 6"
- No torque wrench or special training required
- Torque-rite® sanitary clamp nut (eliminates the problems associated with over/under tightening)



Optional Torque-Rite® Nut

RLPS Series Specifications

Minimum and Maximum Pressure Ratings

Size in. (mm)	Burst I	Pressure – psig	(barg)	MNIFA	Tri-Clover Ferrule		
	Minimum		Maximum	MNFA in² (mm²)	Dimensions in (mm)		
	316*	w/liner	waximum	()	Ferrule OD	Tube ID	
1"	11	16	83	0.35	1.984	0.856	
25 mm	(0.76)	(1.10)	(5.72)	(225)	(50.4)	(21.7)	
1-1/2"	9	11	27	0.79	1.984	1.356	
40 mm	(0.62)	(0.76)	(1.86)	(509)	(50.4)	(34.4)	
2"	7	11	24	1.63	2.516	1.856	
50 mm	(0.48)	(0.76)	(1.66)	(877)	(63.9)	(47.1)	
3"	6	10	20	3.86	3.579	2.865	
80 mm	(0.41)	(0.69)	(1.38)	(2490)	(90.9)	(72.5)	
4"	3	8	18	6.82	4.682	3.810	
100 mm	(0.21)	(0.55)	(1.24)	(4399)	(118.9)	(96.8)	

Notes:

Maximum disk temperature is dependent on gasket material selected

Gaskets

Standar	d Gasket Ma (Stocked)	terials	Temperature Range			
Materials	Cured	Colour	Min	Max		
Viton	Bisphenol		0° F (-18° C)	400° F (204° C)		
Buna	Sulfur	Black	-20° F (-29° C)	230° F (110° C)		
EPDM	Peroxide		-67° F (-55° C)	347° F (175° C)		
PTFE	-	White	-20 F (-29° C)	500° F (260° C)		
Other Avail	able Gasket	Materials	Temperature Range			
Materials	Materials Cured		Min	Max		
	Peroxide	Red				
		White				
Silicone		Black	-67° F (-55° C)	400° F (204° C)		
		Clear				
	Platinum	Clear				
Buna	Sulfur	0° F (-18° C)		400° F (204° C)		
Viton	Bisphenol	White	-20 F (-29° C)	230° F (110° C)		
EPDM	Peroxide		-67° F (-55° C)	347° F (175° C)		

Manufacturing Design Range & Total Performance Tolerance

ASME					PED					
Burst Pressure (psig)		Manufacturing Design Range			Burst	Burst Pressure (barg)		Total Performance Tolerance		
Min	Max	Good	Better	Best	Tolerance	Min	Max	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Teflon - TM The Chemours Company Tri-clamp/Tri-clover - TM Alfa Laval



RLPS 052020

Visit us at www.zookdisk.com

SERVING AMERICA, CENTRAL SERVING EUROPE, **& SOUTH AMERICA**

16809 Park Circle Drive Chagrin Falls, Ohio 44022 **United States**

Toll Free: +1 800 543 1043 Phone: +1 440 543 1010 Fax: +1 440 543 4930 E-mail: sales@zookdisk.com

MIDDLE EAST & AFRICA

Navigation House, Bridge St. Killamarsh, Sheffield, S21 1AL United Kingdom

Phone: +44 (0) 1909 560999 Fax: +44 (0) 1909 560860 E-mail: sales.europe@zookdisk.com Fax: +1 905 681 8838

SERVING CANADA

4400 South Service Road Burlington, Ontario, L7L 5R8 Canada

Toll Free: +1 800 370 6057 Phone: +1 905 681 2885

SERVING ASIA PACIFIC

Unit No. 23A-05, Menara Landmark No.12, Jalan Ngee Heng 80000 Johor Bahru, Johor, Malaysia

Phone: +60 (7) 2910099 Fax: +60 (7) 2910096



Safety through knowledge and performance.

^{*} Alternate sizes, disk materials, gasket materials and lower burst ratings may be available on request. Contact ZOOK for more information.