

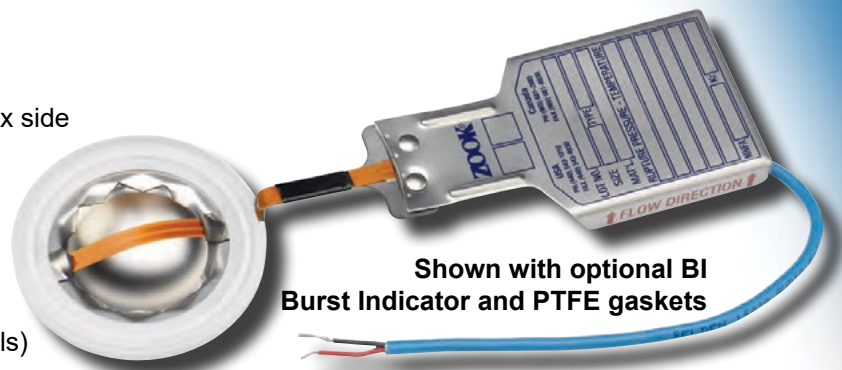
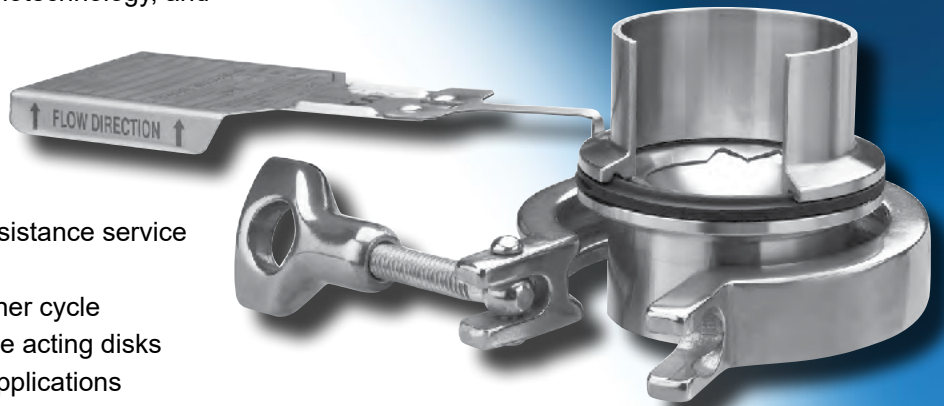


# RLPS Series Sanitary Metal Rupture Disks

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 when compared to scored reverse acting disks
- Excels in liquid, gas, or two-phase applications
- 0% manufacturing range is standard
- Standard operating ratio of 90% of the low end of the burst tolerance – may be extended to 95% of the minimum burst pressure. (Contact ZOOK for operating ratio on pressures below 40 psig)
- Self supporting under full vacuum (with included support ring)
- No special components required for installation – mounts using industry standard components
- 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 material: Black Buna-N (see chart on reverse page for alternate materials)
- Sizes 1" (25mm) through 4" (100mm)
- CE and TUV compliance available



Shown with optional BI  
Burst Indicator and PTFE gaskets

## Optional Features

- TFE liners are available to provide additional protection from corrosive media
- Burst indication (Integral or Ferrule mounted)
- Torque-rite® sanitary clamp nut (eliminates the problems associated with over/under tightening)

## Torque-Rite Nut Features

- An audible "click" indicating correct inch/pounds force
- Maintains the recommended constant 50inch/pounds force
- Retrofits all sanitary clamps, mini through 6"
- No torque wrench or special training required



Optional  
Torque-Rite® Nut



**Safety** through **knowledge** and **performance**.

# RLPS Series Specifications

## Minimum and Maximum Pressure Ratings

Size in. (mm)	Burst Pressure – psig (bar)			MNFA in <sup>2</sup> (cm <sup>2</sup> )	Tri-Clover Ferrule Dimensions in (mm)	
	Minimum		Maximum		Ferrule OD	Tube ID
	316SS*	w/liner				
1"	11	16	83	0.35	1.984	0.856
25 mm	(0.76)	(1.10)	(5.72)	(2.25)	(50.4)	(21.7)
1-1/2"	9	11	27	0.79	1.984	1.356
40 mm	(0.62)	(0.76)	(1.86)	(5.09)	(50.4)	(34.4)
2"	7	11	24	1.63	2.516	1.856
50 mm	(0.48)	(0.76)	(1.66)	(8.77)	(63.9)	(47.1)
3"	6	10	20	3.86	3.579	2.865
80 mm	(0.41)	(0.69)	(1.38)	(24.9)	(90.9)	(72.5)
4"	3	8	18	6.82	4.682	3.810
100 mm	(0.21)	(0.55)	(1.24)	(43.99)	(118.9)	(96.8)

**Notes:**

Maximum disk temperature is dependent on gasket material selected

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

## Manufacturing Range / Burst Tolerance

Specified Burst Pressure Rating	Manufacturing Ranges	Burst Tolerance
1 to below 5	0%, -5%, -10%	+/-0.50
(0.07 to below 0.34)		(+/-0.03)
5 to below 10		+/-0.80
(0.34 to below 0.69)		(+/-0.06)
10 to below 15		+/-1.30
(0.69 to below 1.03)		(+/-0.09)
15 to 40		+/-2.00
(1.03 to 2.76)		(+/-0.14)
Above 40		+/-5%
(2.76)		+/-5%

**Notes:**

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Gaskets

Material	Max. Temperature
Black Buna-N <sup>▲</sup>	230°F (110°C)
White Buna-N	230°F (110°C)
Black EPDM <sup>▲</sup>	230°F (110°C)
Black Viton <sup>▲</sup>	400°F (204°C)

▲ – Stocked material

Tri-clamp/Tri-clover – TM Alfa Laval  
Torque-Rite – TM Rubber Fab



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