

...provide over-pressure protection in sanitary piping system

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.



Shown with optional BI Burst Indicator and PTFE gaskets



ZOOK Sanitary disc installed in Tri Clamp Style Connector



ZOOK Sanitary disc installed in NA Style Connector

RLPS Disc features :-

- Fits standard Tri Clamp and NA sanitary fittings
(Please consult ZOOK Europe Ltd for compatibility with other sanitary fitting systems)
- Non fragmenting design
- Can handle a system operating pressure of up to 95 % of the discs minimum rated burst pressure.
- Low burst pressures achieved with unique scoreless design
- No scoring of dome means high dome integrity and high cycle life compared to scored designs
- Resistant to product build-up, smooth unscored convex side of dome is presented to process medium
- Disc available in a wide range of standard and exotic materials
- Standard gaskets materials are Viton, EPDM or Buna-N. PTFE & Other materials also available
- Additional TFE corrosion protection linings available (RLPS-L)
- Suitable for Liquid, Gas & Vapour applications
- Integral (Bi) or remote (RDI-S) type burst indicators available
- Three dimensional stainless steel disc tag with full disc specification permanently engraved
- EN ISO 4126-2 (PED), ASME UD & TUV compliance available
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ZOOK Enterprises, LLC
16809 Park Circle Drive
Chagrin Falls, OH 44022 U.S.A.
Toll Free **800.543.1043**
Phone **440.543.1010**
Fax **440.543.4930**
E-mail **sales@zook.cc**

ZOOK Canada, Inc.
4400 South Service Road
Burlington, ON Can. L7L 5R8
Toll Free **800.370.6057**
Phone **905.681.2885**
Fax **905.681.8838**
E-mail **sales.canada@zook.cc**

ZOOK Europe, LTD.
Navigation House, Bridge Street
Killamarsh, Sheffield UK. S21 1AL
Phone **0044 (0) 1909 560999**
Fax **0044 (0) 1909 560860**
E-mail **zookeurope@zook.cc**



visit us on the web at www.zook.cc

RLPS Minimum and Maximum Pressure Ratings (Including Burst Tolerance)

Nominal Size Inches (mm)	Burst Pressure – Psig (Barg)			M.N.F.A. In ² (cm ²)	Tri-Clover Ferrule Dimension Inches (mm)	
	Minimum		Maximum		Ferrule O.D.	Ferrule I.D.
	316ss*	With Liner				
1" (25 mm)	11 (0.76)	16 (1.10)	83 (5.52)	0.35 (2.26)	1.984 (50.4)	0.856 (21.7)
1.5" (40 mm)	9 (0.62)	11 (0.76)	27 (1.86)	0.79 (5.10)	1.984 (50.4)	1.356 (34.4)
2" (50mm)	7 (0.48)	11 (0.76)	24 (1.66)	1.63 (10.52)	2.516 (63.9)	1.856 (47.1)
3" (80mm)	6 (0.41)	10 (0.69)	20 (1.38)	3.86 (24.90)	3.579 (90.9)	2.865 (72.5)
4" (100mm)	3 (0.21)	8 (0.55)	18 (1.24)	6.82 (44.00)	4.682 (118.9)	3.810 (96.8)

- Alternate Disc sizes, materials, Gasket available
- Lower Burst Pressure Ratings may be available – Consult Zook
- Maximum Disc Temperature is dependent on gasket material

Available Total Performance Tolerance for the RLPS Sanitary Disc

Burst Pressure (Barg)		Available Performance Tolerance		
Minimum	Maximum	Standard Burst Tolerance (Equivalent to -10% Manufacturing. Range)	Better (Cost Adder) Equivalent to -10% Manufacturing. Range	Best available (Cost Adder) Equivalent to Zero Range
0.069	<0.172	±50%	X	± 0.035 Barg
0.172	<0.345	±30%	±25%	± 0.035 Barg
0.345	<0.483	±20%	±15%	± 0.035 Barg
0.483	<0.690	±20%	±15%	± 0.055 Barg
0.690	<1.034	±20%	±15%	± 0.090 Barg
1.034	<1.1793	±20%	±15%	± 0.138 Barg
1.1793	<2.759	±15%	±12.5%	± 0.138 Barg
2.759	<MAX	±10%	±7.5%	± 5 %

Gaskets	
Material	Max Temperature limit
Black Buna N*	110°C
White Buna N*	110°C
Black EPDM*	129°C
Black Viton*	204°C
Clear Silicone	204°C
Red Silicone	204°C
PTFE*	260°C

* = Stocked material

Optional 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



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