



RAUS Series Sanitary Metal Rupture Disks



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

The RAUS 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.



No special components required for installation – mounts using **industry standard** components.

Features

- *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 marked rating on the disk tag – 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
- 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)
- ASME UD, CE, and TUV compliance available

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)

RAUS Minimum and Maximum Pressure Ratings

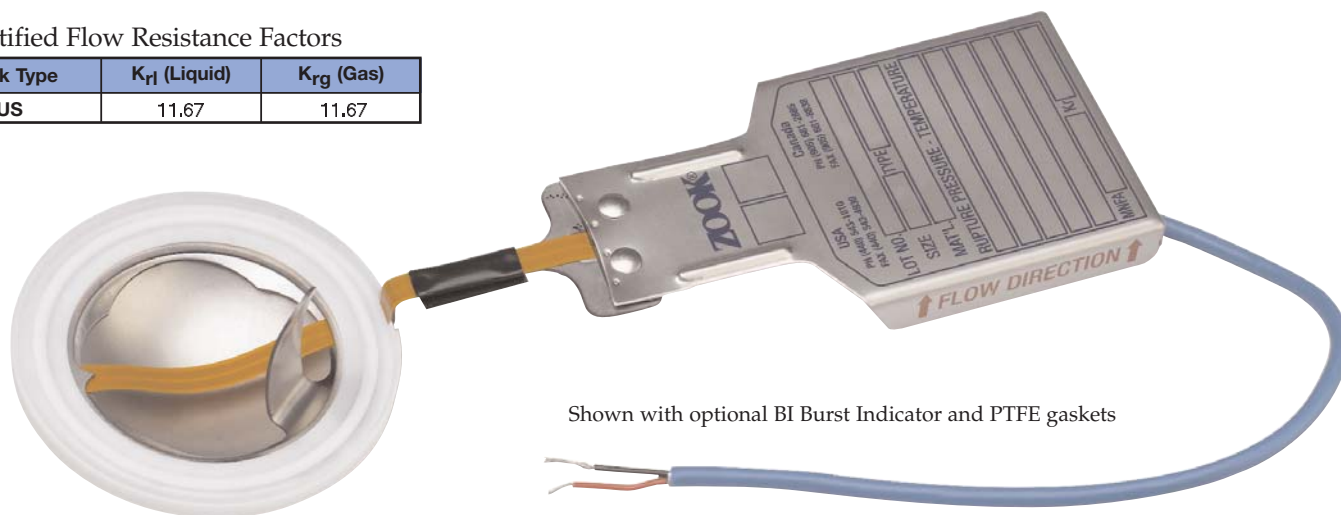
Size in (mm)	Burst Pressure – psig (bar)			MNFA in ² (cm2)	Tri-Clover Ferrule Dimensions in (mm)	
	Minimum		Maximum		Ferrule OD	Tube ID
	316SS*	w/liner				
1" (25)	83 (5.72)	88 (6.07)	300 (20.69)	0.36 (2.3)	1.984 (50.4)	0.856 (21.7)
1-1/2" (40)	27 (1.86)	30 (2.07)	250 (17.24)	0.94 (6.0)	1.984 (50.4)	1.356 (34.4)
2" (50)	24 (1.66)	27 (1.86)	180 (12.41)	1.79 (11.5)	2.516 (63.9)	1.856 (47.1)
3" (80)	20 (1.38)	22 (1.52)	120 (8.28)	4.34 (27.9)	3.579 (90.9)	2.865 (72.5)
4" (100)	18 (1.24)	20 (1.38)	80 (5.52)	7.80 (50.3)	4.682 (118.9)	3.810 (96.8)

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

Note: Maximum disk temperature is dependent on gasket material selected

Certified Flow Resistance Factors

Disk Type	K _{rl} (Liquid)	K _{rg} (Gas)
RAUS	11.67	11.67



Shown with optional BI Burst Indicator and PTFE gaskets

Gaskets

Material	Max. Temperature
Black Buna-N [▲]	230F (110C)
White Buna-N	230F (110C)
Black EPDM [▲]	230F (110C)
Black Viton [▲]	400F (204C)
Clear Silicone	400F (204C)
Red Silicone	400F (204C)
PTFE [▲]	500F (260C)

▲ – Stocked material

Manufacturing Range / Burst Tolerance

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

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

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



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