

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.



- 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)

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

RAUS Minimum and Maximum Pressure Ratings

Size in (mm)	Burst Pressure – psig (bar)			MNFA	Tri-Clover Ferrule Dimensions	
	Minimum		Maximum	in ² (cm2)	in (mm)	
••••	316SS*	w/liner	Maximum	III (CIIIZ)	Ferrule OD	Tube ID
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

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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Manufacturing Range / Burst Tolerance

FLOW DIRECTION

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