



# RAUS Series Sanitary Metal Rupture Disks

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.

## Features

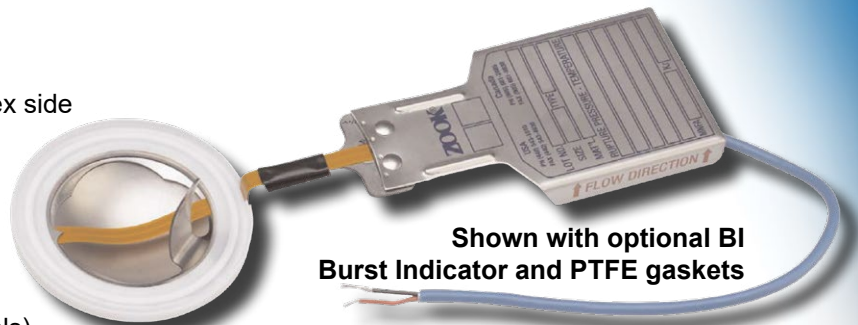
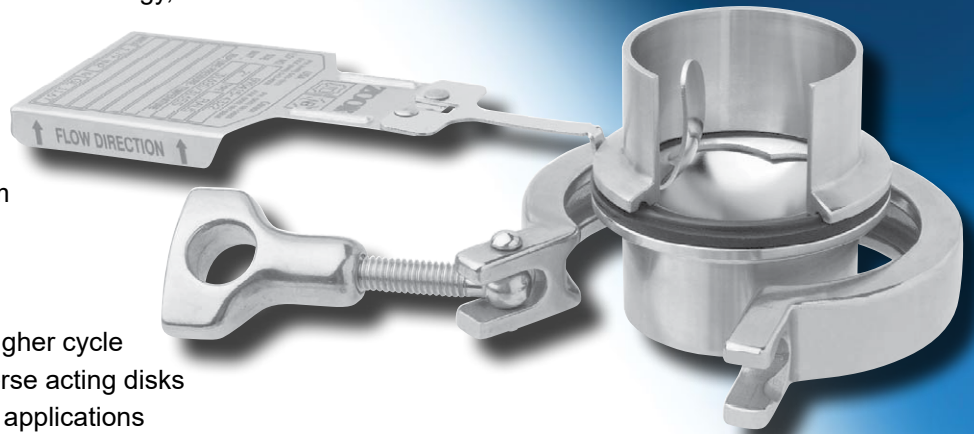
- Provides over-pressure protection in sanitary piping system
- Ideal for high purity and corrosion resistance service
- Designed for Non-fragmentation
- Rugged, scoreless design offers higher cycle life when compared to scored reverse acting disks
- Excels in liquid, gas, or two-phase applications
- 0% manufacturing range is standard
- Standard operating ratio of 90% of the 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
- 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)
- ASME UD, CE, and TUV compliance available

## Optional Features

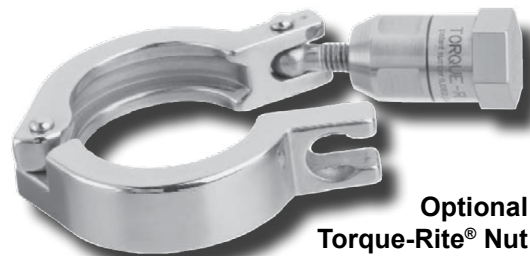
- TFE liners are available to provide additional protection from corrosive media
- Burst indication (Integral or Ferrule mounted)
- Torque-rite® sanitary clamp nut (eliminates the problems associated with over/under tightening)

## 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



Shown with optional BI Burst Indicator and PTFE gaskets



Optional Torque-Rite® Nut



# RAUS 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"	83	88	300	0.36	1.984	0.856
25 mm	(5.72)	(6.07)	(20.69)	(2.3)	(50.4)	(21.7)
1-1/2"	27	30	250	0.94	1.984	1.356
40 mm	(1.86)	(2.07)	(17.24)	(6.0)	(50.4)	(34.4)
2"	24	27	180	1.79	2.516	1.856
50 mm	(1.66)	(1.86)	(12.41)	(11.5)	(63.9)	(47.1)
3"	20	22	120	4.34	3.579	2.865
80 mm	(1.38)	(1.52)	(8.28)	(27.9)	(90.9)	(72.5)
4"	18	20	80	7.80	4.682	3.810
100 mm	(1.24)	(1.38)	(5.52)	(50.3)	(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▲	230°F (110°C)
White Buna-N	230°F (110°C)
Black EPDM▲	230°F (110°C)
Black Viton▲	400°F (204°C)
Clear Silicone	400°F (204°C)
Red Silicone	400°F (204°C)
PTFE▲	400°F (204°C)

▲ – Stocked material

## Certified Flow Resistance Factors

Disk Type	K <sub>rl</sub> (liquid)	K <sub>rg</sub> (Gas)
RAUS	11.67	11.67



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

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Safety through knowledge and performance.