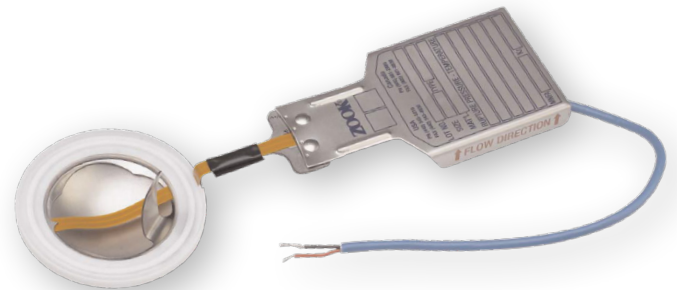
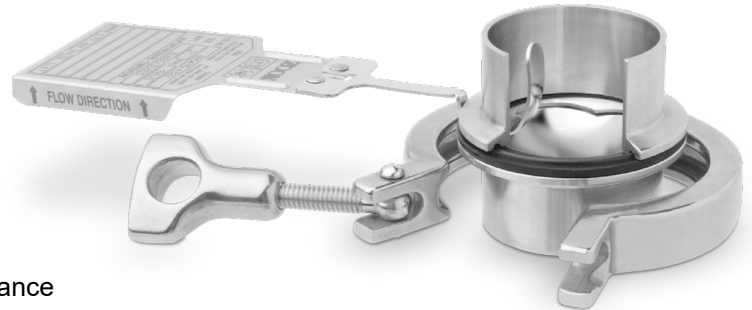


The RAUS Sanitary Disk is a Reverse Acting Metal Rupture Disk design. Applications include: food processing, dairy, breweries, pharmaceutical, distilling, baking, canning, cosmetics, biotechnology, and petrochemical industries.

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
- Excels in liquid, gas, or two-phase applications
- 0% manufacturing range is standard
- Operating ratios up to 95% of the low end of burst tolerance
- 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 materials: Black Buna-N, Black Viton, Black EPDM, White PTFE (see chart on reverse page for alternate materials)
- Sizes 1" (25mm) through 4" (100mm)
- Suitable for Clean-in-place (CIP) applications*
- ASME UD, CE, KOSHA and TÜV compliance available
- 3-A available for applicable materials and options. Contact ZOOK for more information

*Note: Disk dome should not be subject to contact or direct jet spray



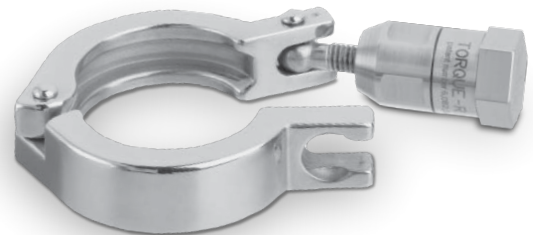
Shown with optional BI Burst Indicator and PTFE gaskets

Options

RAUS-L* A process side **PFA Teflon liner** provides extra protection from corrosion or viscous process build-up (PEEK liner required for 3A compliance)

RAUS-BI* Equipped with ZOOK's Integral **Burst Indicator**

Note: *The maximum temperature rating of rupture disks supplied with liners and BI's is lower than the base disk material



Optional Torque-Rite® Nut

Torque-Rite Nut Features

- An audible "click" indicating correct torque setting
- Maintains the recommended constant 50 inch/pounds force
- Retrofits all sanitary clamps, 1" to 6"
- No torque wrench or special training required
- Torque-rite® sanitary clamp nut (eliminates the problems associated with over/under tightening)

RAUS Series Specifications

Minimum and Maximum Pressure Ratings - psig (barg) @ 72°F (22°C) FDA Certified Gaskets

| Size in. (mm) | Burst Pressure – psig (barg) | | | MNFA in ² (mm ²) | Tri-Clover Ferrule Dimensions in (mm) | |
|------------------|------------------------------|---------|----------|--|--|---------|
| | Minimum | | Maximum | | Ferrule OD | Tube ID |
| | 316* | w/liner | | | | |
| 1" | 83 | 88 | 300 | 0.36 | 1.984 | 0.870 |
| 25 mm | (5.723) | (6.068) | (20.684) | (232) | (50.4) | (22.1) |
| 1-1/2" | 27 | 30 | 250 | 0.94 | 1.984 | 1.370 |
| 40 mm | (1.862) | (2.069) | (17.236) | (606) | (50.4) | (34.8) |
| 2" | 24 | 27 | 180 | 1.79 | 2.516 | 1.870 |
| 50 mm | (1.655) | (1.862) | (12.410) | (1154) | (63.9) | (47.5) |
| 3" | 20 | 22 | 120 | 4.34 | 3.579 | 2.870 |
| 80 mm | (1.379) | (1.517) | (8.273) | (2799) | (90.9) | (72.9) |
| 4" | 18 | 20 | 80 | 7.80 | 4.681 | 3.834 |
| 100 mm | (1.242) | (1.379) | (5.515) | (5032) | (118.9) | (97.4) |

| Standard Gasket Materials (Stocked) | | | Temperature Range | |
|--|-----------|--------|-------------------|-----------------|
| Materials | Cured | Colour | Min | Max |
| Viton | Bisphenol | Black | 0° F (-18° C) | 400° F (204° C) |
| Buna | Sulfur | | -20° F (-29° C) | 230° F (110° C) |
| EPDM | Peroxide | | -67° F (-55° C) | 347° F (175° C) |
| PTFE | - | White | -20° F (-29° C) | 500° F (260° C) |
| Other Available Gasket Materials | | | Temperature Range | |
| Materials | Cured | Colour | Min | Max |
| Silicone | Peroxide | Red | -65° F (-54° C) | 400° F (204° C) |
| | | White | | |
| | | Black | | |
| | | Clear | | |
| | Platinum | Clear | -76° F (-60° C) | 400° F (204° C) |
| Viton | Bisphenol | White | 0° F (-18° C) | 400° F (204° C) |
| Buna | Sulfur | | -20° F (-29° C) | 230° F (110° C) |
| EPDM | Peroxide | | -67° F (-55° C) | 347° F (175° C) |

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 Design Range & Total Performance Tolerance

| ASME | | | | | | PED | | | | |
|-----------------------|-------|----------------------------|--------|------|-----------------|-----------------------|--------|-----------------------------|--------|-------------|
| Burst Pressure (psig) | | Manufacturing Design Range | | | Burst Tolerance | Burst Pressure (barg) | | Total Performance Tolerance | | |
| Min | Max | Good | Better | Best | | Min | Max | Good | Better | Best |
| 1.0 | <2.5 | -10% | -5% | -0% | ±0.33 psig | 0.069 | <0.172 | ±50% | - | ±0.023 barg |
| 2.5 | <5.0 | -10% | -5% | -0% | ±0.5 psig | 0.172 | <0.345 | ±30% | ±25% | ±0.035 barg |
| 5.0 | <7.0 | -10% | -5% | -0% | ±0.5 psig | 0.345 | <0.483 | ±20% | ±17.5% | ±0.035 barg |
| 7.0 | <11.0 | -10% | -5% | -0% | ±0.8 psig | 0.483 | <0.759 | ±20% | ±15% | ±0.055 barg |
| 11.0 | <15 | -10% | -5% | -0% | ±1.3 psig | 0.759 | <1.034 | ±20% | ±15% | ±0.090 barg |
| 15.0 | <26 | -10% | -5% | -0% | ±2.0 psig | 1.034 | <1.793 | ±20% | ±15% | ±0.138 barg |
| 26.0 | <40 | -10% | -5% | -0% | ±2.0 psig | 1.793 | <2.758 | ±15% | ±12.5% | ±0.138 barg |
| 40.0 | Max | -10% | -5% | -0% | ±5% | 2.758 | Max | ±10% | ±7.5% | ±5% |

Certified Flow Resistance Factors

| Disk Type | K _l (Liquid) | K _g (Gas) |
|-----------|-------------------------|----------------------|
| RAUS | 11.67 | 11.67 |

Teflon - Trademark of The Chemours Company
Tri-clamp/Tri-clover – Trademark of Alfa Laval
Torque-Rite – Trademark of Rubber Fab



RAUS_082023

zookdisk.com



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Safety through knowledge and performance.