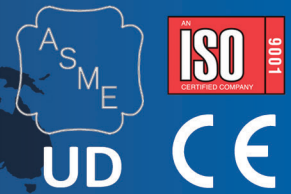




GCR-N™ Sanitary Reverse Buckling Disks



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GCR-N™ and NovAseptic® NA-Connect Disk Holder

The GCR-N and GCR-NST™ reverse buckling disks are installed in NovAseptic® NA-Connect holders, which permit flush mounting of the disk with the interior wall of the vessel and are easy to clean and sterilize. The GCR-N design uses Saf™ technology offering a wide range of burst pressures for sanitary / aseptic applications in the pharmaceutical, biotechnology and food industries.

Features

- One disk design for gas and liquid service
- Flush mounting with vessel wall
- Fail-safe design: damage safety ratio < 1
- Low to high burst pressures
- Ideal for CIP / SIP service*
- Installed with integral sanitary / aseptic gaskets
- 8-16 micro-inch typical disk surface finish
- Minimum dead space between process fluid and the disk
- Suitable for operating pressures up to 90% of marked burst pressure** or 95% of the specified minimum burst pressure (CEN standard pending)
- Designed for non-fragmentation
- Standard manufacturing design range, 0%, optional -5%, -10%
- Withstands full vacuum at all burst pressures
- SAS™ (sanitary alert sensor) with leak sensing option available
- Integral burst disk sensor option
- Worldwide patents pending

*Clean / steam in place

**At marked burst pressures of 40 psig (2.76 barg) and below, the recommended maximum operating pressure is 90% of the marked burst pressure, less 2 psig (0.138 barg) tolerance



Liners are available in all sizes as optional on the process side of the disk. FEP or PFA are generally used.

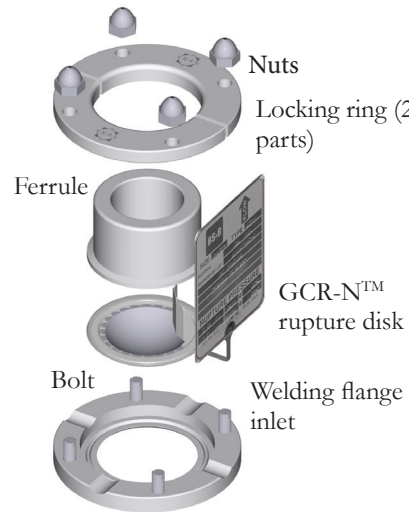
Temperature range FEP -40°F to 400°F (-40°C to 204°C)

PFA -40°F to 500°F (-40°C to 260°C)

Size	Minimum burst pressure for lined disks at 72°F (22°C)		
in	mm	psig	barg
1.5	40	36	3
2	50	36	3

Disk size	1 1/2 inch (40mm)	2 inches (50mm)
K_{RG}	2.0	1.3
MNFA in ²	1.5	2.7
NRA cm ²	9.7	17.4

NAC-38 and NAC-51 holders



K_R values MNFA (minimum net relief area), and NRA (net relief area values

K_R values applicable with or without integral burst sensors

- Use MNFA in² when sizing according to ASME code, para UG-127(a)(2)(a)

- Use NRA cm² (net relief / area) when sizing according to European standards

The K_R values indicated are for gas service. The GCR-N disks have been performance tested for both gas and liquid service; contact BS&B for liquid service K_R values. CE marking of bursting disks is available.

GCR-N Disk Specification

Minimum / maximum burst pressure at 72°F (22°C) psig (barg)									
Nominal disk size	Burst pressure						Inlet height		NA-connect holder type
	psig		barg		(T)				
in	mm	Min	Max	Min	Max	in	mm		
1.5	40	10	101	0.7	7	0.4	11	NAC-38	
2	50	10	101	0.7	7	0.4	11	NAC-51	

NA-connect® design pressure is 101 psig (7 barg) at 302°F (150°C)

Other burst pressures may be available; Consult BS&B

NA-Connect® is a registered trademark of NovAseptic Equipment AB

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