



**Continental Disc[®]
Corporation**

SANITRX[®] MP RUPTURE DISC

TECHNICAL BRIEF

Sanitary Environments & Severe Cycling Service

Continental Disc Corporation introduces the SANITRX[®] MP rupture disc featuring improved performance and severe service capabilities. The SANITRX[®] line of rupture discs is designed specifically for the pharmaceutical and biotech industries.

The SANITRX[®] MP rupture disc offers proven performance from full vacuum to the recommended operating pressure in excess of 100,000 cycles.

With a response time in milliseconds, the SANITRX[®] MP scored reverse acting rupture disc meets all ASME BPE criteria including:

- Design and manufacturing criteria include a 20 Ra microinch or better surface finish
- Solid metal construction provides cleanability for CIP/SIP applications
- Fully traceable materials including USP Class VI certified gaskets
- All components are free of polishing compounds, release agents, animal derivatives or other contaminants

Proven features of the SANITRX[®] MP rupture disc:

- Precision scoring on the vent side of the dome assures optimum cleanability, prevents fragmentation and improves rupture disc performance in severe service applications.
- ASME Code Section VIII, Division 1 compliant.

Certified K_R flow resistance values:

$$K_{RG} \text{ (gas)} = 1.13 \cdot K_{RL} \text{ (liquid)} = 1.60$$

- Maximum recommended operating pressure is 90% of rated burst pressure, for rated burst pressures above 40 psig (2,76 barg). For rated burst pressures at or below 40 psig, the maximum recommended operating pressure is 90% of the value of the rated (marked) burst pressure minus the burst tolerance (i.e., [marked rating minus the 2 psig burst tolerance] x .90).
- Ideal for gas, steam or liquid service applications. Please let your representative know if your rupture disc will be used in a gas or liquid environment so that Continental Disc Corporation can test your order for the appropriate service condition.
- Available with the B.D.I.[®] (Burst Disc Indicator) alarm system to remotely signal when the rupture disc has burst. See B.D.I.[®] alarm system bulletin 5-7701-5 (available on www.contdisc.com) for more information.
- Manufactured to provide a safety ratio of 1 to 1 or less. If the rupture disc becomes damaged, it will relieve at or below the rated burst pressure
- Permanently attached three-dimensional flow direction tag allows for accurate installation ensuring proper performance within the piping system.
- Fits between industry standard sanitary ferrules, NA-connect^{®*} flanges and SANITRX[®] sanitary fittings.

To learn more about the SANITRX[®] MP rupture disc, contact Continental Disc Corporation corporate headquarters or visit our website, www.contdisc.com, to find a local representative.

*NA-connect[®] is a registered trademark of NovAseptic America Inc.



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Manufacturing Ranges: Zero, -5% or -10% for rated burst pressures 50 psig and above or zero, -2.5 psig or -5 psig for burst pressure ratings below 50 psig.

Burst Tolerance:	Burst Pressure	Burst Tolerance
	40 psig (2,76 barg) and below	±2 psig (0,138 barg)
	Above 40 psig (2,76 barg)	± 5%

Available Material/Rupture Disc: 316 SS

FDA and USP Class VI Compliant Gasket Materials	Service Temperatures			
	Minimum		Maximum	
	deg F	deg C	deg F	deg C
Peroxide Cured Silicone	-80	-62	450	232
Platinum Cured Silicone	-80	-62	350	177
White Viton®**	-20	-29	400	204
Black Viton®**	-20	-29	400	204
White EPDM	-55	-48	275	135
Black EPDM	-55	-48	300	149
PTFE Teflon®**	-40	-40	450	232

Buna-n, Teflon®** Steel and other materials available upon request

Minimum / Maximum Burst Pressure (white bars indicates psig/ grey bars indicate barg)
at 72°F / 22°C



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F (22° C).

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