



**Continental Disc<sup>®</sup>  
Corporation**

# SANITRX<sup>®</sup> MP RUPTURE DISC

## TECHNICAL BRIEF

### Sanitary Environments & Severe Cycling Service

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

**The SANITRX<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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.<sup>®</sup> (Burst Disc Indicator) alarm system to remotely signal when the rupture disc has burst. See B.D.I.<sup>®</sup> alarm system bulletin 5-7701-5 (available on [www.contdisc.com](http://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<sup>®\*</sup> flanges and SANITRX<sup>®</sup> sanitary fittings.

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

\*NA-connect<sup>®</sup> 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 <sup>®**</sup>	-20	-29	400	204
Black Viton <sup>®**</sup>	-20	-29	400	204
White EPDM	-55	-48	275	135
Black EPDM	-55	-48	300	149
PTFE Teflon <sup>®**</sup>	-40	-40	450	232

Buna-n, Teflon<sup>®\*\*</sup> Steel and other materials available upon request

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

Nominal Size	316 SS	
	Min	Max
1 in	35	100
25 mm	2,41	6,89
1-1/2 in	15	100
40 mm	1,03	6,89
2 in	15	100
50 mm	1,03	6,89
3 in	10	60
80 mm	0,689	4,14

Note: Minimum pressures are based upon the minimum of the manufacturing range at 72° F (22° C).

\*\* Teflon and Viton are registered trademarks of E.I. du Pont de Nemours and Company used under license.

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ASME Code Symbol Stamp  
Available When Specified

China Manufacture License  
Available When Specified

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