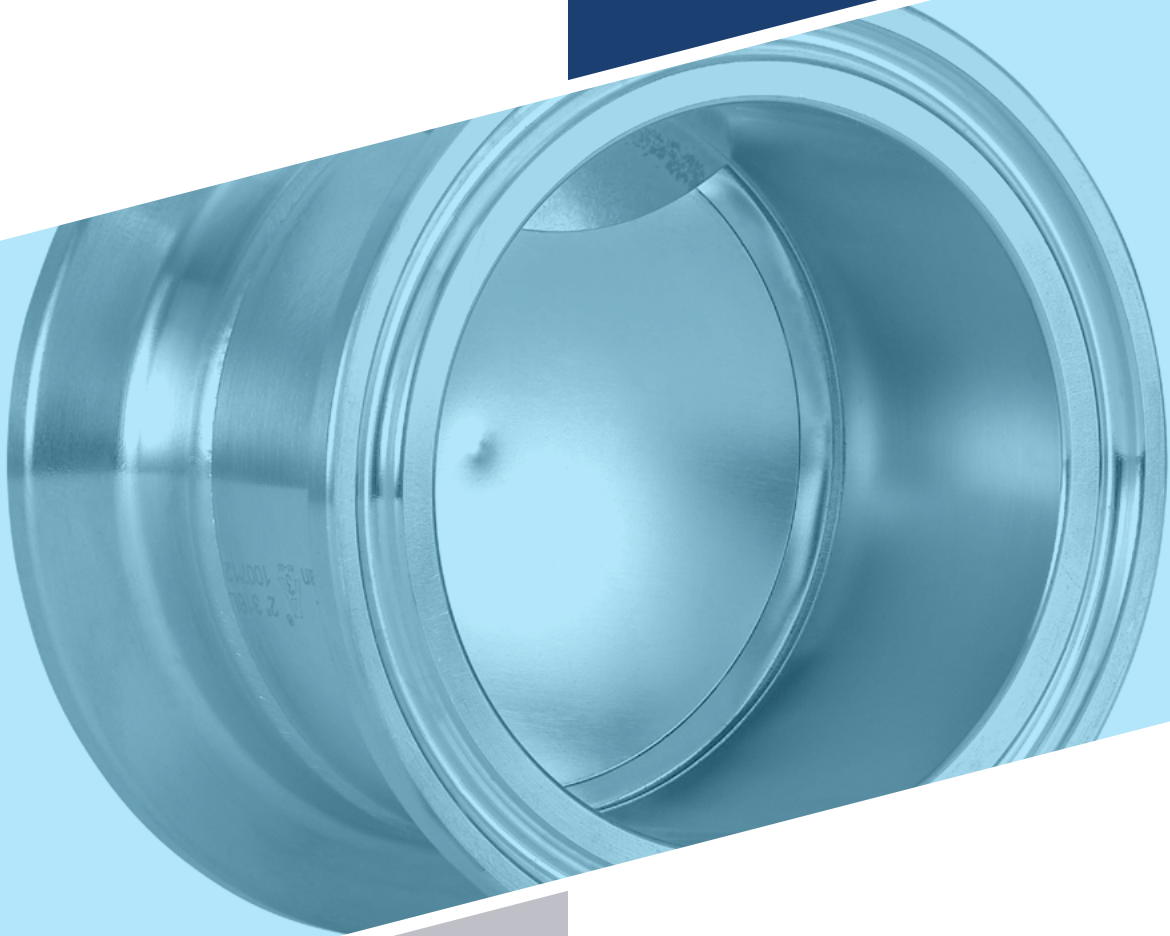




Continental Disc[®]
Corporation

SANITARY RUPTURE DISC

INTEGRX-HPX™



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The Continental Disc IntegrX-HPX™ rupture disc addresses the need within the biopharmaceutical industry to improve process performance, reliability, and safety. The pioneering and innovative IntegrX-HPX™ combines the unrivaled performance of the legendary HPX with ASME BPE compliant crevice-free inlet design, removing the need for integral seals.

Traditional sanitary rupture disc designs limit access to the full spectrum of benefits delivered by HPX technology. The new IntegrX-HPX™ is a semi-circular, scored, reverse-acting rupture disc, perfectly suited for cyclic process conditions from full vacuum to 95% of the stamped rating. Its welded design mitigates the impact of downstream piping loads on the rupture disc burst pressure and overall performance. Continental Disc incorporated an external tag, aiding installation and providing clearly visible identification in the field and easy access to marked data.

IntegrX-HPX™ rupture disc offers a unique opportunity to boost efficiency, safety, and keep cost down by utilizing legendary HPX service life. The bold new design reduces maintenance, minimizes the chance of installation damage, and allows you to control the source and type of seal material without affecting rupture disc performance.

Technical Details

- Sizes: 1" (25mm) to 4" (100mm)
- Rupture Disc Materials: 316 Stainless Steel, Alloy C276, Alloy C22
- Ferrules Material: 316/316L Stainless Steel as standard
- Burst Pressure Range: 15 psig to 500 psig (1.03 barg to 34.5 barg)
- Temperature Range: -320°F to 500°F (-196°C to 260°C)
- Manufacturing Range: Zero
- Burst Tolerance: +/- 5% over for marked burst pressure 40 psig (2.76 barg) and +/- 2 psig (0.138 barg) @ 40 psig (2.76 barg) and under
- Burst to Operating Ratio:
 - 95% of the burst pressure for settings with 40 psig (2.76 barg)
 - For burst pressures below 40 psig, 95% of the burst pressure setting minus the burst tolerance
- Sanitary Ferrule Connections: ASME BPE, ISO 2852, DIN 32676
- Global certifications and approvals including ASME (UD), PED (CE), UKCA, CRN

Features

- Versatile installation options, including between industry standard ferrules, NovAseptic® Connectors and others
- Each disc is manufactured and tested to optimize service life and performance*
- Crevice free design per ASME BPE-2019 Appendix M Spray Device Coverage Test
- Cleanability test performed on inlet side of 100% of rupture discs using Dye Penetrant per ASME BPVC Section V to ensure crevice free design
- CIP and SIP cleanable to ASME BPE requirements
- Ideal for liquid or gas/vapor applications**

Options

- Electropolished surface finishes available

*The ASME BPE Standard provides requirements applicable to the design of equipment used in the biotech, pharmaceutical and personal care industries, including aspects related to sterility and cleanability, materials of construction, dimensions and tolerances, surface finish, material joining and seals. It applies to components in contact with the product, raw materials or intermediates. Systems that are a critical part of the manufacturing process, such as water for injection (WFI), clean steam, filtration and intermediate storage may also abide by this standard.

**To optimize service life and rupture disc performance, Continental Disc Corporation manufactures and tests each IntegrX-HPX rupture disc order for compressible or incompressible relief conditions as required by your application. IntegrX-HPX rupture discs manufactured and tested only for compressible (gas/vapor) relief conditions may not function properly in an incompressible (liquid) application. Please state in your specifications and orders if a scenario exists for relief of incompressible media or if relief conditions exist only for compressible media.

SPECIFICATIONS

Size Inches (mm)	Overall Length Inches (mm)	Burst Pressure Range psig (barg)	MNFA In ² (mm ²)	Ra Value microinch (micrometers)	Krgl
1 (25)	1.33 (33.8)	30 to 250 (2.07 to 17.2)	0.493 (318)	20 (0.5)	1.88
1.5 (40)	1.45 (36.8)	20 to 500 (1.38 to 34.5)	1.18 (761)	20 (0.5)	1.88
2 (50)	1.53 (38.9)	20 to 450 (1.38 to 31.0)	2.25 (1452)	20 (0.5)	1.88
3 (80)	1.92 (48.8)	15 to 175 (1.03 to 12.1)	5.49 (3542)	20 (0.5)	1.88
4 (100)	2.12 (53.8)	15 to 100 (1.03 to 6.89)	9.77 (6303)	20 (0.5)	1.88





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