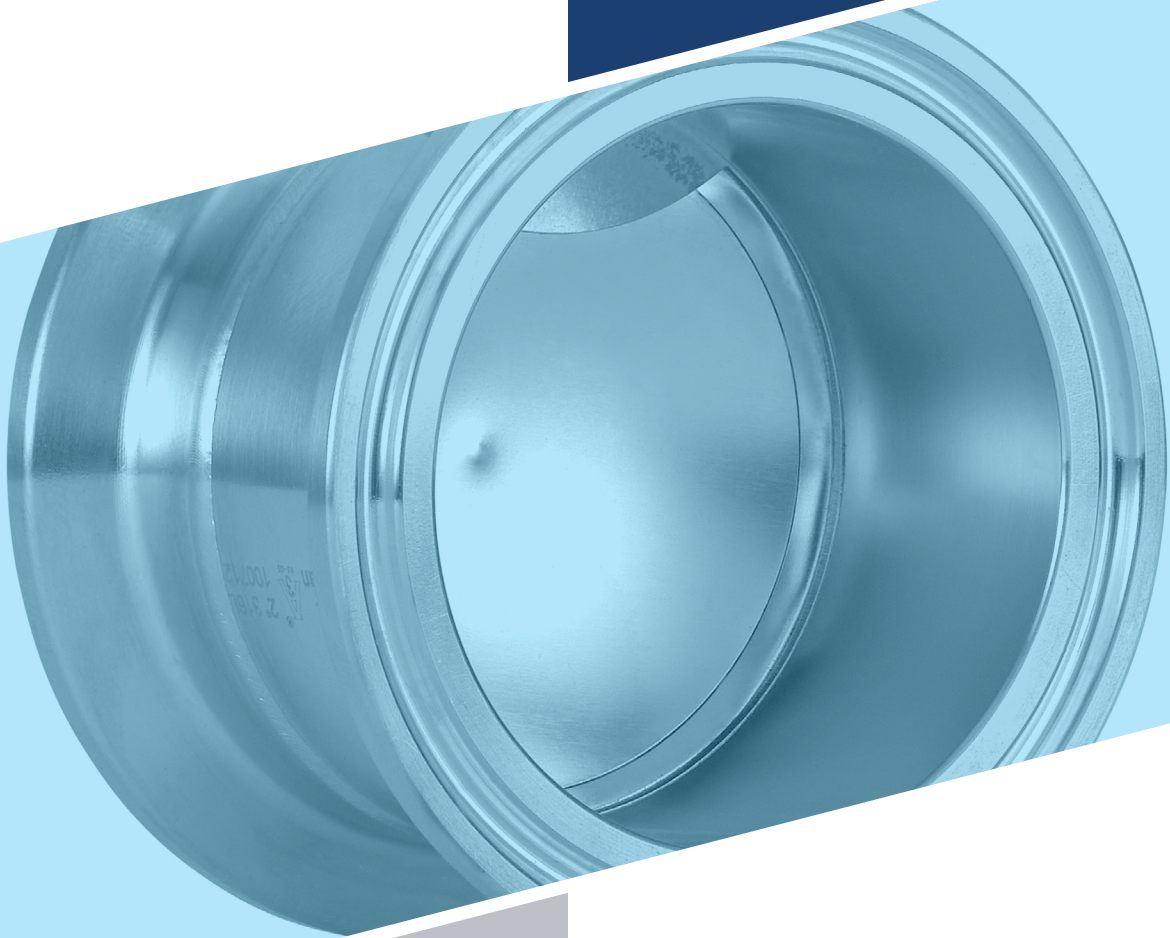




Continental Disc[®]
Corporation

SANITARY RUPTURE DISC

INTEGRX-HPX™



INTEGRX-HPX™

The Continental Disc IntegrX-HPX™ rupture disc addresses the need to improve process performance, reliability, and safety in biopharmaceutical, food and beverage, and sanitary applications.

Traditional sanitary rupture disc designs limit access to the full spectrum of benefits delivered by HPX® technology. Offering a unique opportunity to boost efficiency, safety, and keep cost down, the IntegrX-HPX utilizes the service life of the high-precision HPX rupture disc.

Combining the unrivaled performance of the HPX rupture disc with ASME BPE-compliant crevice-free inlet design, the IntegrX-HPX is a semi-circular, scored, reverse-acting rupture disc perfectly suited for cyclic process conditions from full vacuum to 90% or 95% of the stamped rating.

The welded design reduces maintenance, minimizes risk of damage during installation, and allows you to control the source and type of seal material without affecting the disc's performance while mitigating the impact of downstream piping loads on the rupture disc burst pressure and overall performance. Additionally, it's external tag aids in installation, providing easy access to marked data and clearly visible identification in the field.



INTEGRX-HPX™

Technical Details

- Sizes: 1" (25mm) to 4" (100mm)
- Rupture Disc Materials: 316 SS, 316L SS, Alloy C276, Alloy C22
- Ferrules Material: 316/316L SS as standard
- Burst Pressure Range: 15 psig to 500 psig (1.03 barg to 34.5 barg)
- Temperature Range: -320°F to 500°F (-195°C to 260°C)
- Manufacturing Range: For ratings above 50 psig: Zero, -5%, -10%
For ratings 50 psig and below: Zero, -2.5 psig, -5 psig
- Burst Tolerance: +/- 5% for marked burst pressures above 40 psig (2.76 barg) and +/- 2 psig (0.138 barg) for marked burst pressures 40 psig (2.76 barg) and under
- Maximum Recommended Burst to Operating Ratio:
 - 90% or 95% of the burst pressure for marked burst pressures above 40 psig (2.76 barg)
 - For marked burst pressures 40 psig and below, 90% or 95% of the burst pressure setting minus the burst tolerance
- Sanitary Ferrule Connections: ASME BPE or ISO 2852
- Standard wetted surface finish meets 20 Ra microinch (0.5 micrometer)
- Flow Resistance Measurement: 1.88 Krgl
- Global certifications and approvals including ASME (UD), PED (CE)

Features

- Versatile installation options, including between industry standard ferrules, Nov Aseptic® 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**
- Rupture disc can be operated to full vacuum

Options

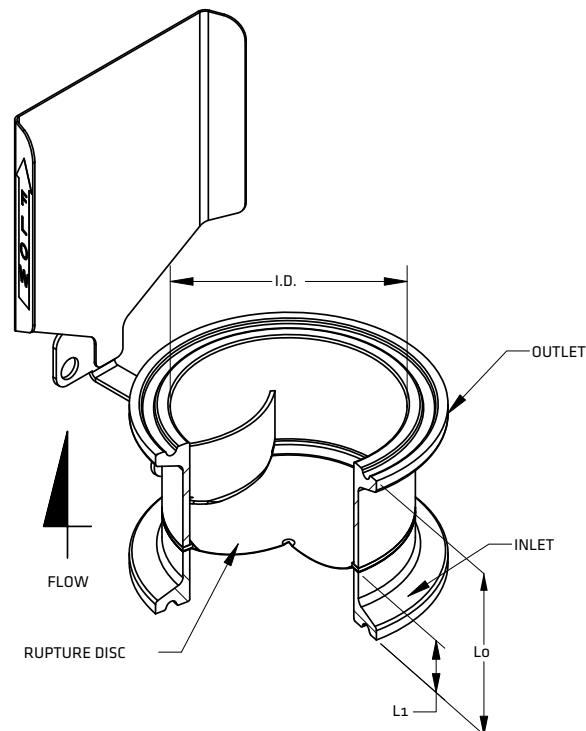
- Electropolished surface finishes available
- Safety ratio of 1 to 1 - If the rupture disc is damaged, it will relieve at or below the burst pressure

*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)	L0 = Overall Length Inches (mm)	L1 = Inlet Length Inches (mm)	L1/I.D. = Ratio of Inlet Length to Tube Bore
1 (25)	1.33 (33,8)	0.39 (9,9)	0.45
1.5 (40)	1.45 (36,8)	0.50 (12,7)	0.37
2 (50)	1.53 (38,9)	0.50 (12,7)	0.27
3 (80)	1.92 (48,8)	0.50 (12,7)	0.17
4 (100)	2.12 (53,8)	0.73 (18,5)	0.19



SPECIFICATIONS

Size Inches (mm)	Rupture Disc 316 SS, 316L SS		Rupture Disc Alloy C276, Alloy C22		MNFA Inches ² (mm ²)	Ra Value microinch (micrometers)
	Burst Pressure		Burst Pressure			
	Minimum psig (barg)	Maximum psig (barg)	Minimum psig (barg)	Maximum psig (barg)		
1 (25)	30 (2,07)	250 (17,2)	40 (2,76)	250 (17,2)	0.493 (318)	20 (0.5)
1.5 (40)	20 (1,38)	500 (34,5)	30 (2,07)	500 (34,5)	1.18 (761)	20 (0.5)
2 (50)	20 (1,38)	450 (31,0)	25 (1,72)	450 (31,0)	2.25 (1452)	20 (0.5)
3 (80)	15 (1,03)	175 (12,1)	20 (1,38)	175 (12,1)	5.49 (3542)	20 (0.5)
4 (100)	15 (1,03)	100 (6,89)	15 (1,03)	100 (6,89)	9.77 (6303)	20 (0.5)



NOTES





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