

HIGHER PRESSURES

NOW AVAILABLE IN THE

HPX[®]

RUPTURE DISC PRODUCT LINE



The latest expansion to the HPX[®] Rupture Disc product line is the inclusion of Higher Pressures in the semicircular scored reverse acting rupture disc which is ideal for liquid or gas/vapor applications. The expanded pressure ranges in this HPX Rupture Disc has made the HPX the industry leading rupture disc with a wide range of burst pressures. This addition is available in 1" – 3" sizes and burst pressures up to 2,000 psig (138 barg).

APPLICATIONS

Due to its high performance operating capabilities, range of burst ratings and materials of construction, the HPX Rupture Disc is the ideal product to use in plants where production includes batch processing runs where operating conditions and media may change frequently. The variability offered by HPX Rupture Discs makes future modifications to specifications easier to incorporate in change control procedures and without piping modifications.

FEATURES

- Expanded pressure ranges for HPX in 1" through 3" sizes
- Operating ratio choice of 90% or 95%
- Burst pressure ranges from 10 psig to 2,000 psig (0,689 to 138 barg)
- Design tested for 250,000 cycles¹ from full vacuum to 95% of burst rating
- Safety ratio of 1 to 1 or less. If the rupture disc becomes damaged, it will relieve at or below the burst pressure
- Non-fragmenting design
- Ideal for liquid or gas/vapor applications* (see note on next page)
- Available with TEFLON[®] liner for corrosion protection on the process side of the rupture disc** (see note on next page)
- TEFLON[®] coating is available for corrosion protection on the process and/or vent side of the rupture disc
- Available to be cleaned for oxygen or chlorine service

BENEFITS

- Compatible with HPX[®] Insert, HPX-PT[®] (pre-torqued) or HPX[®] Double Disc holders
- Flow optimization of the HPX holder and rupture disc assembly is characterized by best-in-class certified KR factors of 0.29 for gas/vapor relief or 0.38 for liquid relief.
- A durable tapered sealing surface on the holder inlet that, along with proper installation and handling, provides a bubble-tight (no air bubbles detected with leak detection fluid) metal-to-metal seal between the holder inlet and rupture disc. Contact your sales representative for specific leak rate or leak testing requirements.
- Lower maintenance costs
- Increased productivity of your system

¹ Tests performed on 316SS and HASTELLOY[®] C





ASME Code Symbol Stamp
Available When Specified



Pressure Equipment Directive
Available When Specified

BURST PRESSURES //

The following table shows burst pressures available at 72°F (22°C).

SIZE	316 SS / 316L SS, INCONEL®		HASTELLOY® C	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
	psig/ barg	psig/ barg	psig/ barg	psig/ barg
1"	15	1440	30	2000
25 mm	1,03	99,3	2,07	138
1½"	10	1250	20	1800
40 mm	0,689	86,2	1,38	124
2"	10	1100	15	1440
50 mm	0,689	75,9	1,03	99,3
3"	10	900	15	1100
80 mm	0,689	62,1	1,03	75,9

Minimum and Maximum pressures are based upon the corresponding minimum and maximum of the manufacturing range at 72°F (22°C).

****TEFLON® liners are available for:**

1", 1.5" discs rated > 30 psig @ 72°F

2" – 3" discs rated > 25 psig @ 72°F

MAXIMUM RECOMMENDED TEMPERATURE LIMITS

DISC MATERIAL	°F	°C
316 SS / 316L SS	900	482
HASTELLOY® C	900	482
INCONEL®	1000	538
TEFLON® liner	500	260

NOTE: Product parameters are based on United States customary units. Values in metric units are provided for reference only.



*To optimize service life and rupture disc performance, Continental Disc Corporation manufactures and tests each HPX-Ta™ Rupture Disc order for compressible or incompressible relief conditions as required by your application. HPX-Ta™ 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.

*For more information on all of HPX® Rupture Disc offerings,
please see our HPX® Product Family brochure.*

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INCONEL® is a registered trademark of the Inco family of companies



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