

LOTRX® RUPTURE DISC



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The **LOTRX® Rupture Disc** is a scored reverse acting rupture disc that utilizes a failure initiating indent, a highly accurate manufacturing method to achieve and control a burst pressure at close tolerances, plus a precision semicircular score to provide a clean, consistent opening pattern.

FEATURES/SPECIFICATIONS

Sizes:

1" - 8" (25mm - 200mm)

Burst Pressure:

1.5 - 40 psig (0,103 - 2,07 barg)

Manufacturing Range:

ZERO, -5%, -10%
(see burst pressure rating on pages 10 & 11)

Maximum Recommended Operating Ratio:

90%
(see burst pressure rating on pages 10 & 11)

Available Maximum Temperature Limit:

1000° F (538° C)
(see table 3 on page 9)

Service:

Gas or Liquid

Nonfragmenting Design:

Yes

Withstand Full Vacuum:

Yes*

Operating Conditions:

Static, Cyclic or Pulsating

Material(s):

316 SS, 316L SS, HASTELLOY® C, Nickel, MONEL®, INCONEL® and Tantalum

Seat Configuration:

Flat seat

Holders:

LOTRX Insert Holder

Compatible with the Following Alarm System:

BDI-FLX™** or B.D.I.

Tagging:

Three dimensional stainless steel flow direction tag attached to all sizes

* Designed to withstand full vacuum for burst pressure ratings above 5 psig (0,345 barg)

** BDI-FLX™ Burst Disc Sensor System should not be used for pressure ratings below the minimum rating listed in the BDI-FLX™ Burst Disc Sensor System Datasheet.

The LOTRX Rupture Disc provides all the benefits of Continental's scored, reverse acting discs, with additional features that make it ideal for extremely low pressure applications.

The LOTRX Rupture Disc is an ideal choice for primary and/or secondary system relief protection and provides an effective means of fugitive emission control when used to isolate a safety relief valve.

LOTRX Rupture Disc Features:

- Failure Initiating Indent, located at or near the apex of the rupture disc dome, lowers the pressure at which reversal occurs
- Notched Outlet Ring facilitates opening of the rupture disc along the precision semicircular score at extremely low reversal pressures
- Backpressure Support Inlet Ring permits operation under full vacuum conditions for burst pressure ratings 5 psig (0,345 barg) and above

Optional Features:

- Fluoropolymer outlet protective cover available for corrosion protection on the vent side of the rupture disc and holder in 1" (above 4 psig) and 1 1/2"-8" (all pressures)
- Fluoropolymer coating is available for corrosion protection on the process and/or vent side of the rupture disc
- Safety Ratio 1 to 1 or less. If the rupture disc becomes damaged, it will relieve at or below the burst pressure
- Ideal for liquid or gas/vapor applications
- Available to be cleaned for Oxygen or Chlorine service
- Stainless steel encapsulating rings are standard, optional ring materials available
- To optimize service life and rupture disc performance, Continental Disc manufactures and tests each LOTRX rupture disc order for compressible or incompressible relief conditions as required by your application. LOTRX 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

