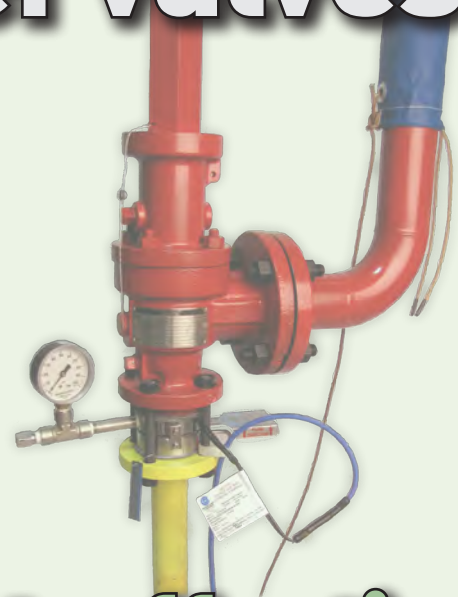


rupture discs + pressure relief valves

earth-friendly. cost-effective.
smart.



**Continental Disc[®]
Corporation**

the rupture disc + pressure relief valve advantage

pressure relief valves combined with rupture discs.

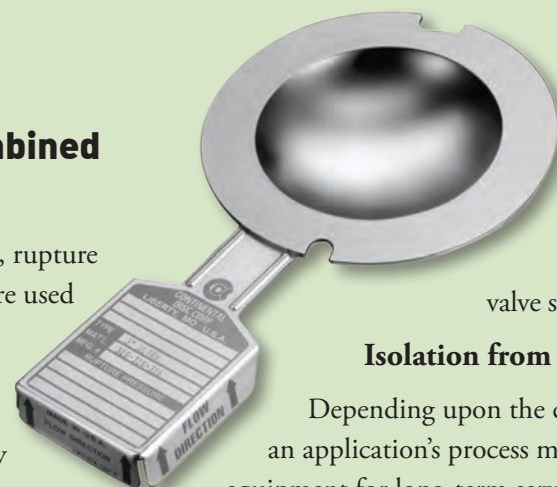
Often thought of as substitute products, rupture discs and pressure relief valves (PRVs) are used together to ensure protection and long-term savings. The combined use of rupture discs and pressure relief valves has become common practice, especially in oil, chemical and petrochemical plants.

Advantages:

- When in use, rupture discs provide a superior process seal reducing fugitive emissions.
- Valves reclose after an overpressure event, saving process media and allowing operation to continue until the rupture disc can be replaced
- Allows for less expensive valve material
- Extends the valve's life and requires less maintenance
- Reduces overall cost and lead time

Isolation from Leakage

Pressure relief valves can be significant sources of media leakage and emissions. Due to continually tightening government emission standards, small leaks can be more than troublesome - they can be expensive. By isolating the inlet of a PRV, a positive seal is established



to minimize leakage and reduce fugitive emissions that can escape up through the valve seat.

Isolation from Corrosion

Depending upon the corrosive nature of an application's process media, maintaining equipment for long-term service can be expensive due to the costs of exotic materials for valve components or frequent changeouts caused by equipment deterioration. Isolating a valve with a rupture disc minimizes corrosive effects by preventing continual contact between the valve's wetted parts and the system media.

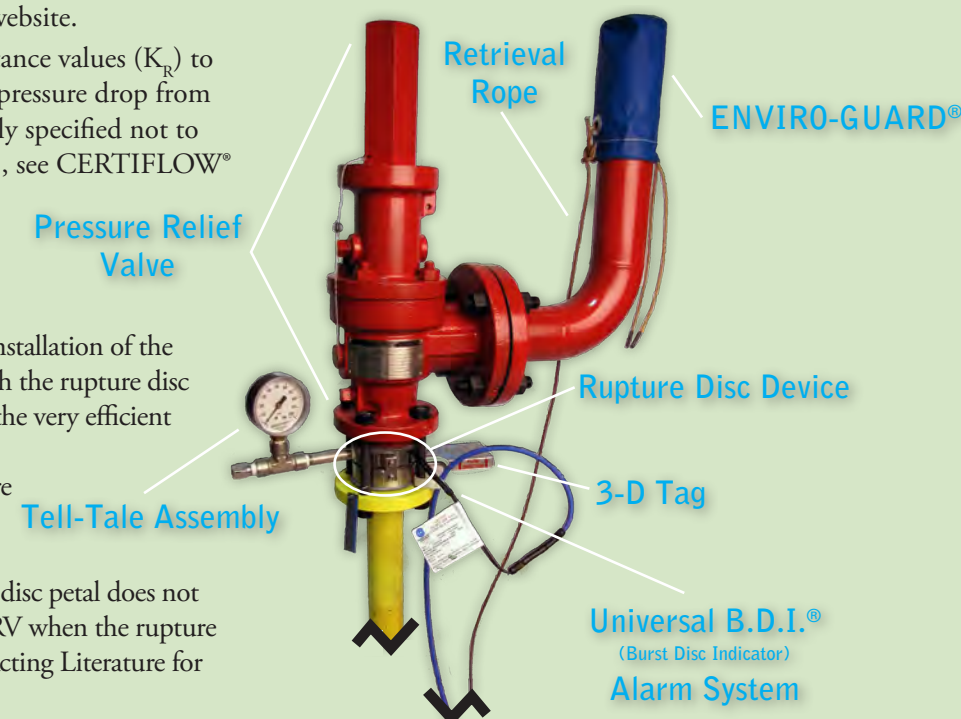
Continental Disc Corporation Rupture Discs

The following are some of the Continental Disc Corporation rupture discs that could be used in conjunction with a pressure relief valve: ULTRX®, STAR X®, MINTRX®, LOTRX®, MICRO X® and RCS rupture discs, CDC and CDCV rupture discs with non-metallic seals, and the SANITRX® rupture disc line for sanitary applications.

Technical Considerations:

- Multiple codes and standards require the use of a tell-tale device to indicate or vent pressure between the rupture disc and PRV ensuring proper function of the combined devices. A gauge tap can be requested in the outlet of the rupture disc holder to allow for connection of a tell-tale device.
- The size of the rupture disc device is generally the same as the PRV inlet connection.

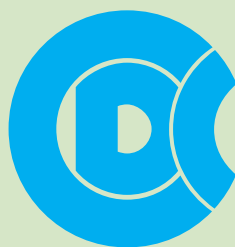
- The flow capacity of the rupture disc in combination with the PRV is generally determined by correcting the valve capacity to account for the rupture disc device. For certified rupture disc/pressure relief valve combination capacity factors, see ASME Combination Capacity Factors literature on our website.
- For rupture disc certified flow resistance values (K_R) to be used in evaluating flowing fluid pressure drop from the vessel to the valve inlet (normally specified not to exceed 3% of the valve set pressure), see CERTIFLOW® literature on our website.
- ULTRX (1" - 8"), MINTRX, STAR X and LOTRX reverse acting rupture discs feature holders having an extended outlet height to enable installation of the safety relief valve directly coupled with the rupture disc holder. The benefit of this feature is the very efficient flow characteristics of the relieving devices. ULTRX 10" and 12" rupture discs require a spool piece between the rupture disc holder and safety relief valve to ensure that the rupture disc petal does not interfere with the operation of the PRV when the rupture disc bursts. See the Scored Reverse Acting Literature for more details.



a comparison of options

	Pressure Relief Valve	Rupture Disc	Pressure Relief Valve + Rupture Disc
Leak Tight	No - leaks, which may result in product loss	Yes	Yes
Cost	High	Low	Medium
Maintenance	High - must be shut down to be checked periodically	Low	Medium
Adjustable	Yes	No - fixed setting	Yes
Reclosable	Yes	No	Yes
Reusable	Yes	No - must be replaced after each use	Valve is reusable, disc is not.





Continental Disc[®] Corporation

Performance Under Pressure[®]

Continental Disc Corporation has representatives located throughout the world. Contact the Continental Disc Corporation office nearest you for the authorized representative in your area or visit www.contdisc.com.

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