



Safety is for life.™

HPRD
high-pressure
rupture disc



Reliable. German.
Safety.

A customised compact rupture disc

The geometry of our rupture discs offers you a valuable innovation: more stable and more durable rupture discs. By modifying the design of our existing rupture discs, we have made a crucial improvement: Unlike other high pressure rupture discs, the weld seam is not subjected to shear and bending forces – only to pressure. Anyone with a technical knowledge of this area understands that this makes a major difference. Geometrically separating the area under peak stress and the weld seam makes the rupture disc more durable and able to comply with the tightest burst tolerances – tolerances of +/- 3 % and better, depending on the specified burst pressure. The new HPRD rupture discs provide long-term protection for processes with temperatures up to 400 °C and pressures up to 5000 barg and beyond. They have already proved themselves under real process conditions and in a wide range of customer applications. These include reactors, autoclaves and compressors in a variety of high pressure processes, such as LDPE production.

Advantages

- ✓ Extra long service life even at the highest temperatures and pressures.
- ✓ Burst tolerance of +/- 3 % prevents premature rupture disc response and thus production standstills.
- ✓ Design can be adapted in any way.

Technical data

Burst pressure	up to 5,000 barg
Temperature	up to 400 °C
Tolerance*	up to +/- 3 %
Operating ratio	80% of nominal burst pressure
Material of rupture disc	depending on requirement
Housing material	15-5 PH, 17-4 PH, SA 723, ... (as per customer requirement)
Nominal size	customised

* Standard tolerance (including manufacturing tolerance).
Different burst pressures, temperatures, tolerances, operating ratio and materials are available on request.

Visit rembe.de for detailed information and your personal contact.

REMBE® GmbH Safety+Control

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REMBE® Sustainability: Not only do we provide professional safety for your plant and machinery and protect human life, but our products also avoid harmful emissions sustainably eliminate leaks and/or reduce noise pollution. You can find more information on sustainability at rembe-green.de.