



Safety is for life.™

DATA SHEET



# IKB®

Reverse Acting Rupture Disc

## SUPERIOR PERFORMANCE AND MINIMAL DOWNTIME WITH ADVANCED CPL™ TECHNOLOGY

The IKB® is the only reverse acting rupture disc to be manufactured using REMBE®'s unique Contour Precision Lasering (CPL™) Technology ensuring high quality, accurate burst control even in the harshest of environments. Unexpected problems can cause costly downtime, CPL™ eliminates common industry concerns associated with mechanically scored discs such as premature failure, corrosion on the score-line or pin holing. Precision lasered along the periphery for full-bore opening, the IKB® is a non-fragmenting rupture disc design that boasts a 95%\* operating ratio and excels in demanding, high-cycling applications providing a long life solution for your plant. The IKB® was specifically designed to provide reliable protection against overpressure across an extensive range of industries in equipment such as pressure vessels, piping systems, gas cylinders and reactors among others.

\*Application specific

**Made in Germany**



Also available with integrated signalling

## Your advantages

- **Superior performance with cost-effective pricing** – ideal for new installations and change-outs where both high quality and price are a key requirement.
- **Reduce safety valve expenditure** – Isolating the safety valve from the process means using the IKB® for valve isolation enables the pressure relief valve to be sourced in more economical materials as the valve is not in contact with the process medium during normal operation.
- Manufactured with unique **Contour Precision Lasering (CPL™)** – **Reduces downtime** caused by premature failure, corrosion or pin-holing.
- **Torque-independent design** – no special installation tools required meaning disc is less prone to installation damage for maximum uptime.
- Compatible with a wide range of process conditions – one disc type suitable for many installation points, reduces training and simplifies purchasing.

Process medium	Suitability
Gas/Steam	✓✓
Liquid with gas cushion	✓✓
Two phase flow	✓
Hygienic applications	✓✓

✓✓ Recommended  
✓ Suitable

You can find detailed information and contact details for enquiries relating to IKB® at [www.rembe.de](http://www.rembe.de). Give us a call on: T +49 2961 7405-0 or contact us via email: [info@rembe.de](mailto:info@rembe.de).





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## Certification

Works Certificate	PED	ASME	KOSHA (South Korea)	CML (China)	TR CU (EEU)

## Technical Data

Product Parameters		
Feature	Characteristics	Variations
Holder compatibility	(I)G-KUB®	IG-KUB®; IG-KUB® V; IG-KUB®-PTU; G-KUB®; G-KUB® V; G-KUB®-PTU
Signalling available	✓	NIMU, SIGU, BT-S, FOS, SB(-S), SBK-S
Safety valve isolation	✓	-
Pulsating/Cycling	✓	-
Vacuum resistance	✓	-
Back pressure resistance	✓	-
K <sub>RG</sub> (ASME)	0.97	-
Torque independent burst pressure	✓	-
Tolerance [%]	± 10 (±5; -0/+10; +0/-10 upon request)	-
Manufacturing design range [%]	0	-
Operating ratio [%]	95	-
Non-fragmenting design	✓	-
Temperature range [°C]	-80 to 600*	-
Leakrate [mbar l s <sup>-1</sup> ]	10 <sup>-4</sup> to 10 <sup>-6</sup>	-

Low pressures may require a specific torque value. Please consult the REMBE® operating manual.

### Temperature Range\*

Material	min. Temperature [°C]	max. Temperature [°C]
Inconel	-196	600
Hastelloy	-196	400
Monel	-10	425
Nickel	-10	600
Stainless steel	-80	320
Titanium	-10	300
Tantalum	-10	250

\*Alternative temperatures available upon request.





**Burst Pressure Range (PED)**

DN	NPS [in]	Vent area		Burst pressure			
		[cm <sup>2</sup> ]	[in <sup>2</sup> ]	min. [bar g]	max. [bar g]	min. [psi g]	max. [psi g]
20	0.75	3.4	0.53	8	100	116	1450
25	1	5.5	0.85	3.5	100	50.8	1450
32	1.25	9.5	1.47	3	100	43.5	1450
40	1.5	13	2.02	2	64	29	928
50	2	22	3.41	1.5	64	21.8	928
65	2.5	35	5.43	1.3	64	18.9	928
80	3	50	7.75	1	40	14.5	580
100	4	80	12.4	0.8	40	11.6	580
125	5	120	18.6	0.7	40	10.2	580
150	6	180	27.9	0.5	40	7.3	580

**Burst Pressure Range (ASME)**

DN	NPS [in]	Vent area		Burst pressure			
		[cm <sup>2</sup> ]	[in <sup>2</sup> ]	min. [bar g]	max. [bar g]	min. [psi g]	max. [psi g]
20	0.75	3.4	0.53	8	100	116	1450
25	1	5.5	0.85	3.5	100	50.8	1450
32	1.25	9.5	1.47	3	100	43.5	1450
40	1.5	13	2.02	2	64	29	928
50	2	21.5	3.33	1.5	64	21.8	928
65	2.5	30.5	4.73	1.3	64	18.9	928
80	3	47.5	7.36	1	64	14.5	928
100	4	82	12.71	0.8	64	11.6	928
125	5	128	19.84	0.7	40	10.2	580
150	6	185	28.68	0.5	40	7.3	580
200	8	320	49.6	0.5	40	7.3	580
250	10	505	78.28	0.5	40	7.3	580
300	12	720	111.6	0.5	40	7.3	580



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