#### **PRODUCT INFORMATION**



**Safety** is for life.<sup>™</sup>



# SUPERIOR PERFORMANCE AND MINIMAL DOWNTIME WITH ADVANCED CPL™ TECHNOLOGY

Suitable for a wide range of process conditions, the IKB<sup>®</sup> is a costeffective, reverse acting rupture disc that is suitable for a variety of applications. A truly versatile solution to meet the needs of your entire plant, the IKB<sup>®</sup> 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.

The IKB<sup>®</sup> is the only reverse acting rupture disc to be manufactured using REMBE<sup>®</sup>'s unique Contour Precision Lasering (CPL<sup>™</sup>) Technology ensuring high quality, accurate burst control even in the harshest of environments. Unexpected problems can cause costly downtime, CPL<sup>™</sup> eliminates common industry concerns associated with mechanically scored discs such as premature failure, corrosion on the score-line or pin holing. Precision sublimated along the periphery for full-bore opening, the IKB<sup>®</sup> is a fragmentation-free rupture disc design that boasts a 95%<sup>1</sup> operating ratio and excels in demanding, high-cycling applications providing a long life solution for your plant.

#### Fast, safe, installation for maximum process uptime

The IKB<sup>®</sup> is a solid-metal, torque independent design<sup>2</sup>, enabling simpler installation and routine maintenance checks. REMBE<sup>®</sup>'s torque independent solutions minimize the risk of damage due to incorrect handling or during improper installation, ensuring reliable burst pressure relief and minimal downtime. CPL<sup>™</sup> Technology ensures a smooth process face, reducing any concerns of corrosion or contamination, making the IKB<sup>®</sup> a versatile solution for a wide range of industries. The IKB<sup>®</sup> is fully compatible in gas, steam or liquid<sup>3</sup> applications, including under full vacuum conditions.

#### 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 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

<sup>1</sup> Application specific

- <sup>2</sup> Low pressures may require a specific torque value.
- Please consult the REMBE® operating manual





You can find detailed information and contact details for enquiries relating to IKB® at www.rembe.us. Give us a call on: T +1 704 716 7022 or contact us via email: info@rembe.us.



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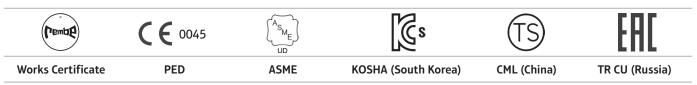
#### Reduce pressure relief expenditure with the IKB® rupture disc

The IKB<sup>®</sup> is perfect for new installations, combining superior performance with cost-effective pricing. The torque independent IKB<sup>®</sup> is ideal for commissioning where several rupture discs are installed in a short space of time, as no special tools or training is required. The IKB<sup>®</sup> can be installed quickly, safely and easily, ensuring no delays to start-up.

Available in a wide range of materials and coating options, the IKB<sup>®</sup> is an excellent choice for relief valve isolation. Selecting the IKB<sup>®</sup> at project specification stage can provide significant cost benefits, not only in the product itself, but by enabling a pressure relief valve to be sourced in a standard material as the valve is not in contact with the process medium.

Installed into the IG-KUB<sup>®</sup> holder, which is also compatible with REMBE<sup>®</sup>'s unique reverse-acting solution – KUB<sup>®</sup>, allows the possibility to upgrade without further outlay in a new holder if process conditions were to change in the future. Use together with REMBE<sup>®</sup>'s NIMU detection system for a full rupture disc assembly, ensuring fail safe installation and notification of disc burst site-wide.

## Certification



Technical restrictions must be observed dependent on the certification.

Applications					
Safety valve isolation		Distillation columns			
Refineries		Pumps			
Chemical		Heat exchangers			
Petrochemical		Separators			
Power plants		Condensers			
Chemical reactors		Cryogenic applications			
Process vessels	<b></b>	LNG			

Product Parameters		
Feature	Characteristics	Variations
Signaling available	✓	NIMU, SIGU, BT-S, FOS, SB, SBK
Safety valve isolation	✓	-
Tolerance [%]	± 10 (±5; -0/+10; +0/-10 upon request)	-
Manufacturing design range [%]	0	-
Operating ratio [%]	95	-
Non-fragmenting design	✓	-
Temperature range PED [°F]	-112 to 1112 (-80 to 600 °C)*	-
Leakrate [mbar l s <sup>-1</sup> ]	10 <sup>-4</sup> to 10 <sup>-6</sup>	-

\*Different temperatureranges on request.



### **Technical Data**

Process medium	Suitability		
Gas/Steam	<b>~</b>		
Liquid with gas cushion			
Two phase flow	<b>√</b>		
Hygienic applications			

Recommended Suitable

#### В

Burst Pressure Range (PED)									
		Vent area	Vent area		Burst pressure				
DN	NPS [in]	[cm <sup>2</sup> ]	[in²]	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		
55	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		



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**REMBE**<sup>®</sup> Inc.

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