Pressure and Vacuum Relief

Engineered and Manufactured in Germany

Forward Acting Bursting Discs

BT / ST / UT

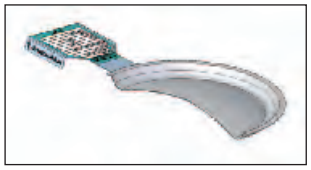
These single-layer bursting discs are mainly used for applications with medium to high burst pressures.

BT bursting disc with holder unit

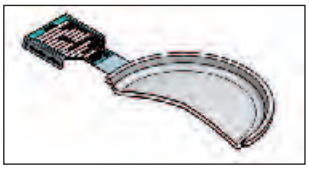
The burst pressure is determined by the thickness and tensile strength of the specified material.
The maximum permissible operating pressure is up to 70% of the rated burst pressure.

All bursting discs are available with an integrated vacuum support.

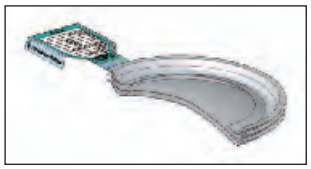
Type BT for sizes DN 20 to DN 600 (3/4" to 30")
with integrated tag plate for standard bursting disc holder IG.



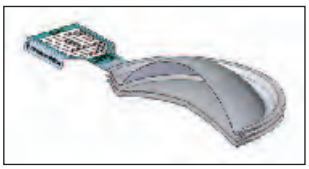
BT with tag plate



BT-VSI with integral vacuum support and tag plate

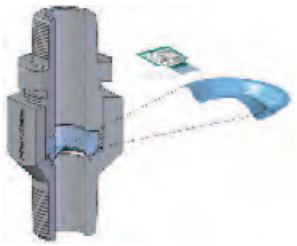


BT-RBV with additional protection ring and tag plate



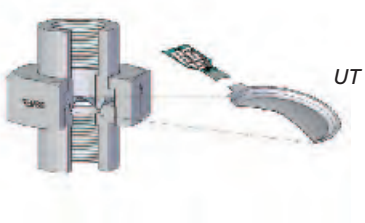
BT-OBV with additional protection cover and tag plate

Type ST for sizes DN 6.35 to DN 25 (1/4" to 1")
with separate tag plate for screw holder unit



ST with separate tag plate

Type UT for sizes DN 20 to DN 50 (3/4" to 2")
with identification flap and separate (wire-on) tag plate for bursting disc holder unit with locking nut.



UT with separate tag plate

Technical Data

BT / ST / UT

Burst Element Material		Aluminium	Nickel	Monel*2	Inconel*2	Stainless Steel
max. allowable Temperature*		°C				
NPS	DN	120	400	430	600	400
[in]	[mm]	min. Burst Pressure [barg]				
¼"	6.35	15.0	27.5	50.0	75.0	75.0
½"	15	6.0	11.0	20.0	21.0	30.0
¾"	20	2.6	9.0	10.0	15.0	16.0
1"	25	2.0	8.0	7.0	11.0	13.0
1½"	40	1.5	5.0	7.0	8.0	10.0
2"	50	1.0	5.0	7.0	8.0	6.0
2½"	65	0.9	4.0	6.0	7.0	6.0
3"	80	0.7	3.0	5.0	6.0	5.5
4"	100	0.3	2.5	3.0	3.5	5.0
6"	150	0.2	2.0	2.5	3.0	3.5
8"	200	0.1	1.5	2.0	2.5	3.0
10"	250	0.1	1.4	2.0	2.5	3.0
12"	300	0.1	1.4	2.0	2.0	2.0
14"	350	0.1	1.4	2.0	1.5	2.0
16"	400	0.1	1.3	2.0	1.5	2.0
18"	450	0.1	1.3	2.0	1.5	2.0
20"	500	0.1	1.3	1.5	1.5	2.0
24"	600	0.1	3.0	4.0	3.5	2.0

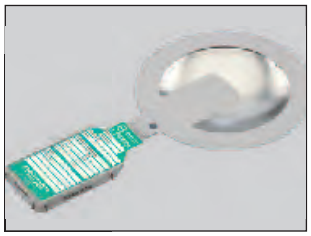
*[1] Temperature range for bursting discs with CE marking may vary.
Standard tolerance ±10%, incl. manufacture tolerance
Other sizes, pressure classes, temperatures, materials on request
*[2] Company names or trademarks combined with material descriptions are only used for description purposes. The product promoted is not product of the respective companies and trademarks.

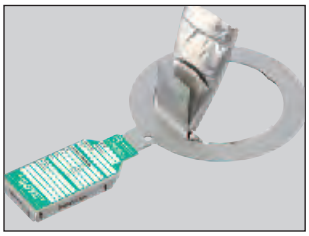
CUSTOMER BENEFITS

- **Easy handling**
- **Wide range of materials**
- **Optimal costs / benefit ratio**

Reverse Acting Bursting Disc

BT-IKB





Compared with scored bursting discs, upon opening the BT-IKB reverse acting bursting disc gives full bore instantaneous opening.

The innovative BT-IKB patented disc was developed for the ultimate protection of equipment such as pressure vessels, piping, gas cylinders, reactors and other types of vessels against pressure and vacuum.

The discs uninterrupted totally clean process surface (there are no score lines, indentations or imperfections of any kind) makes it the ideal solution for sanitary applications in the food, biotech and pharmaceutical industries.

The BT-IKB technology provides a defined amount of kinetic energy upon rupture, which immediately releases this energy to provide guaranteed full bore instantaneous opening.

All engineered weaknesses; Invisible and accelerated by Kinetics, are on the downstream (venting side) of the disc again without the need for score lines or knife blades.

The BT-IKB has an operating ratio of 90% and guarantees non-fragmentation.

Easily installed in the IG-KUB disc holder, it can be installed between companion flanges and is fully torque independent.

Combined with the REMBE IG-KUB holder the BT-IKB reverse acting bursting disc provides easy handling and an economical solution.

Technical Data			
BT-IKB			
Vent Area*			
NPS	DN	Vent Area*	Height
[in]	[mm]	[cm²]	[mm]
¾''	20	3.4	41
1''	25	5.5	46
1½''	40	13	46
2''	50	22	53
3''	80	50	60
4''	100	80	68
6''	150	180	80

Pressure Range*			
NPS	DN	min. Burst Pressure	max. Burst Pressure
[in]	[mm]	[barg]	[barg]
¾''	20	8.0	100
1''	25	3.5	100
1½''	40	2.0	64
2''	50	1.5	64
3''	80	1.0	40
4''	100	0.8	40
6''	150	0.5	40

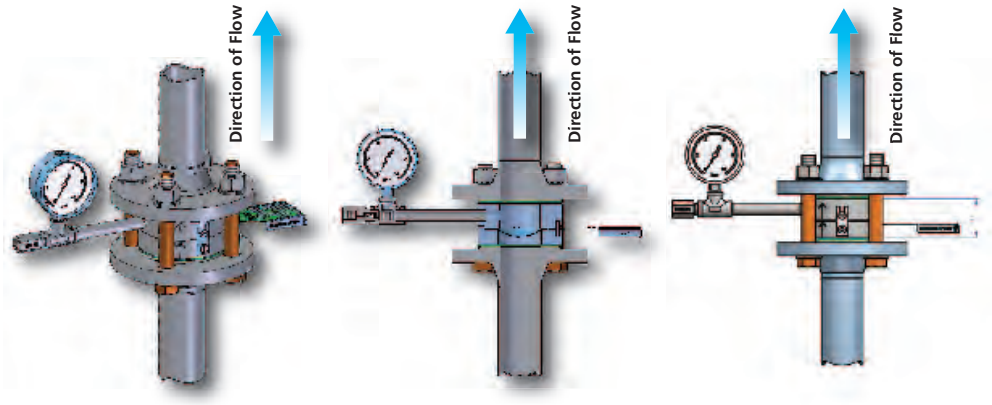
*Vent area and pressure range IAW PED certification. MNFA (ASME Sec. VIII, Div. 1) may vary.

max. Recommended Temperature*	
Stainless Steel (SS316/SS 316L)	+400 °C
Hastelloy C-276	+400 °C
Nickel	+400 °C
Inconel 600	+600 °C

*Temperature range for bursting discs with CE mark may vary. Other materials on request.

CUSTOMER BENEFITS

- Protects pressure relief valves
- Reduced maintenance costs
- Protects all process equipment in chemical and petrochemical industries



The BT-IKB expertly isolates Pressure Relief Valves (PRV) and multiplies their life cycle.