



# RT2

## Graphite Bursting Disc

### Replaceable Element Graphite Bursting Disc

Graphite Bursting Discs protect equipment and personnel from the effects of over-pressurisation in static and dynamic pressurised systems. The discs are designed to rupture at a predetermined burst rating when installed in a piping system.

#### Impervious Graphite

Each disc is made from a single piece of graphite, a high-purity form of carbon, which is impregnated with phenolic resin. The resulting material, called impervious graphite, is impermeable and resistant to most corrosives.

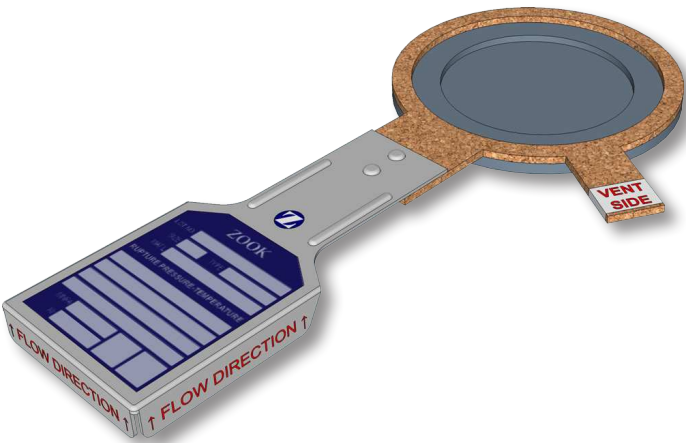
#### Options

Easy to install and maintain, the RT2 Graphite Bursting Disc is tamper proof, has no moving parts and mounts into a re-usable disc holder.

A range of options and accessories are available to increase the flexibility of standard discs: fluoropolymer sintered discs offer increased corrosion resistance, and a wider temperature range; Reverse Pressure Supports allow lower rated discs to withstand vacuum; and special gaskets are available to suit your application. For unique installations, our engineering department will work with you to create a custom-design disc.

#### Applications

ZOOK Graphite Bursting Discs enhance safety in chemical, petrochemical, pharmaceutical, food, medical, and related processing systems around the world. Other applications include: storage tanks, tank trailers, rail cars, barges, pressured switchgear, and air conditioning compressors.



#### Features:

- Corrosion resistant replaceable element graphite bursting disc.
- Fits into re-usable Disc Holder.
- Increased tolerance to variable process temperatures<sup>1</sup>.
- Suitable for Gas, Liquid or Vapour Service.
- 25mm (1") to 600mm (24") diameter.
- Burst ratings 0.069 barg (1 psig) to 27.579 barg (400 psig).
- Operating Pressure up to 80% of the disc's Minimum Rated Burst Pressure.
- Maximum disc temperature 165°C (329°F).
- Discs rated 1.72 barg (25 psi) and above will withstand full vacuum. Reverse Pressure Support required for burst ratings below 1.72 barg (25 psi).
- Optional Fluoropolymer Sintered (RT2T) disc provides additional corrosion resistance and wider temperature range.
- Type RDI Burst Detector available for most applications.

<sup>1</sup> when compared to metal bursting discs.



**ZOOK Enterprises, LLC**  
16809 Park Circle Drive  
Chagrin Falls, OH 440022 U.S.A

Toll Free **800.543.1043**  
Phone **440.543.1010**  
Fax **440.543.4930**  
E-Mail [sales@zook.cc](mailto:sales@zook.cc)

**ZOOK Canada, Inc.**  
4400 South Service Road  
Burlington, ON Can. L7L 5R8

Toll Free **800.370.6057**  
Phone **905.681.2885**  
Fax **905.681.8838**  
E-Mail [sales.canada@zook.cc](mailto:sales.canada@zook.cc)

**ZOOK Europe, Ltd.**  
Navigation House, Bridge Street  
Killamarsh, Sheffield, UK S21 1AL

Phone **0044 (0) 1909 560999**  
Fax **0044 (0) 1909 560860**  
E-mail [zookeurope@zook.cc](mailto:zookeurope@zook.cc)



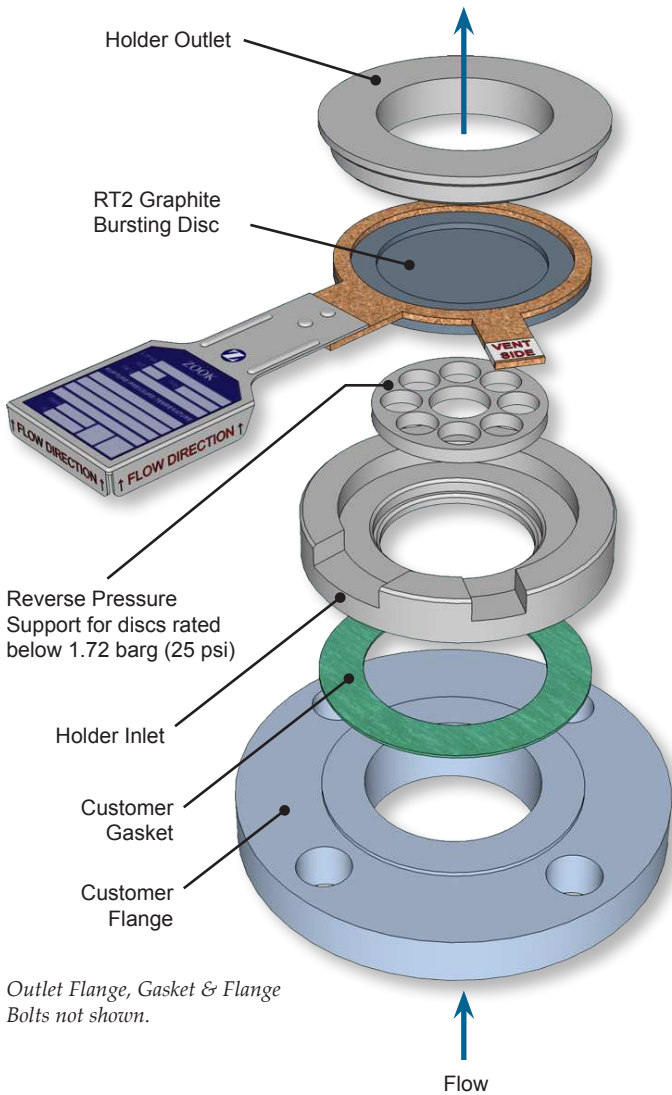
[www.zook.cc](http://www.zook.cc)

# RT2 Graphite Bursting Disc

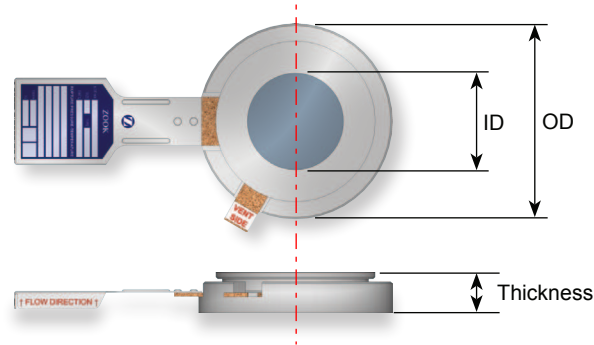
## Specifications - ANSI Class 150

Nominal Disc Size	Diameter (mm)		Minimum Thickness (mm)		Burst Rating (barg)	
	ID	OD	316SS Holder	Graphite Holder	Min.	Max.
1" (25 mm)	25	63.5	16	26	0.689	27.579
1½" (40 mm)	40	82.6	18	27	0.483	20.684
2" (50 mm)	50	101.6	19	28	0.207	13.790
2½" (65 mm)	65	120.7	22	32	0.207	12.066
3" (80 mm)	80	133.4	24	35	0.172	10.342
4" (100 mm)	100	171.5	29	42	0.121	6.895
6" (150 mm)	150	219.1	32	56	0.103	5.171
8" (200 mm)	200	276.2	39	74	0.069	3.447
10" (250 mm)	250	336.6	44	96	0.069	3.447

## Typical Installation



## RT2 Disc in Re-Useable Holder



## Installation

- Compatible with other manufacturers' Replacement Element type Graphite Discs (i.e. EHG2, G2, Series 2 & E2)<sup>1</sup>.

## Manufacturing Standard

- Manufactured in accordance to the latest Pressure Equipment Directive (PED) 97/23/EC (Category IV).
- CE Marked in compliance to EN-4126-2.
- Burst Test Certificates supplied as standard - ASME or TÜV Testing available if required.

<sup>1</sup> Consult Zook Europe for fitment guide.