

# TECHNICAL BRIEF

**Continental Disc Corporation**

A Siegel-Robert Company

## ICON™ BURSTING DISC

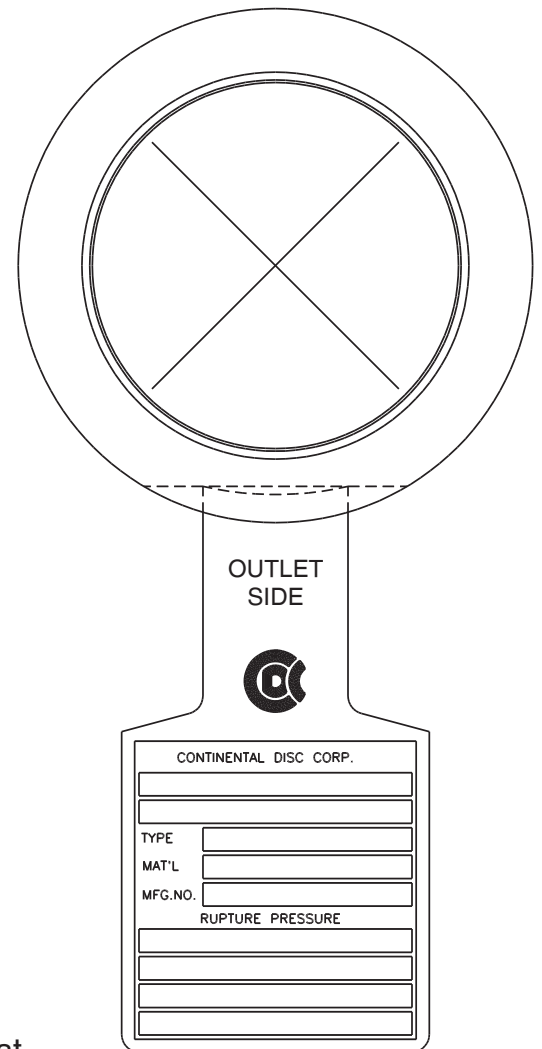
The Continental ICON bursting disc is a cross scored, solid metal bursting disc specifically designed to protect transportation vessels like intermodal tank containers, railroad portable containers, tank cars, over-the-road tank trucks and other vessels that transport liquids or gas products, from potentially damaging overpressure conditions.

### ICON Bursting Disc Features:

- Scored bursting disc of "one-piece" solid metal construction.
- Suitable for gas or liquid service.
- Withstands full vacuum without a vacuum support.
- Self-aligning outlet ring assures proper positioning of the bursting disc with the mating outlet flange.
- Designed to install between PN6, ANSI 150 or BS10 table D flanges.
- Designed for non-fragmentation.
- Permanently attached 316 Stainless Steel tag.
- Inlet and outlet Teflon® gaskets provide a leak tight seal in the system.

The ICON bursting disc is ideal for installation beneath pressure relief valves due to its non-fragmenting design. The ICON bursting disc is designed for installation on tanks meeting the requirements of ADR, US DOT, DOT Blue Book, IMCO, ISO, and RID.

ICON bursting discs are available in 65 mm or 80 mm sizes and standard burst pressures of 3,67, 4,10, or 4,84 barg at 20°C (53.2, 59.5, or 70.2 psig at 68°F). Each is supplied with a permanently attached 316 Stainless Steel identification tag which is steel stamped with the bursting pressure at coincident temperature, materials of construction, and any customer specified data. This tag provides a visual reference for proper installation orientation.



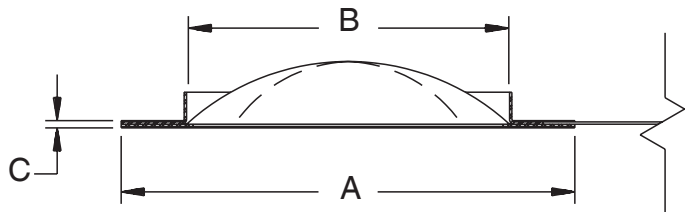
\* Teflon is a registered trademark of E.I. DuPont de Nemours and Company used under license.

# ICON BURSTING DISC SPECIFICATIONS

- Burst tolerance:  $\pm 5\%$
- Standard materials of construction:
 

|                       |                     |
|-----------------------|---------------------|
| Outlet ring:          | 316 Stainless Steel |
| Bursting disc:        | Nickel              |
| Liner:                | Teflon              |
| Inlet ring:           | 316 Stainless Steel |
| Inlet/Outlet Gaskets: | TFE Teflon          |
- Standard burst pressures at 20°C (68°F):
  - 3,67 barg (53.2 psig)
  - 4,10 barg (59.5 psig)
  - 4,84 barg (70.2 psig)
- Nominal dimensions (mm/in.):

| SIZE           | A    | B    | C    |
|----------------|------|------|------|
| 65mm<br>2½ in. | 90   | 65   | 1,5  |
|                | 3.54 | 2.56 | .060 |
| 80 mm<br>3 in. | 120  | 80   | 1,5  |
|                | 4.72 | 3.15 | .060 |



- Other burst pressures available. Consult the factory.

## CORPORATE HEADQUARTERS

Continental Disc Corporation  
 3160 W. Heartland Drive  
 Liberty, MO 64068-3385 USA

Phone: (816) 792-1500  
 FAX: (816) 792-2277 / 5447  
 E-mail: [pressure@contdisc.com](mailto:pressure@contdisc.com)  
 Website: [www.contdisc.com](http://www.contdisc.com)

### THE NETHERLANDS

Continental Disc Corporation  
 Energieweg 20  
 2382 NJ Zoeterwoude-Rijndijk  
 The Netherlands  
 Phone: +(31) 71-5412221  
 FAX: +(31) 71-5414361  
 E-mail: [cdcnl@contdisc.com](mailto:cdcnl@contdisc.com)

### GERMANY

Continental Disc Deutschland GmbH  
 Virmondstrasse 151  
 47877 Willich  
 Germany  
 Phone: +(49) 2156-490802  
 FAX: +(49) 2156-492547  
 E-mail: [cdd@contdisc.com](mailto:cdd@contdisc.com)

### UNITED KINGDOM

Continental Disc UK Ltd.  
 Unit C, The Business Centre  
 Faringdon Avenue,  
 Harold Hill, Romford  
 Essex RM3 8EN  
 United Kingdom  
 Phone: +(44) 1708-386444  
 FAX: +(44) 1708-386486  
 E-mail: [cdukl@contdisc.com](mailto:cdukl@contdisc.com)

### CHINA

Continental Disc Corporation  
 2026 The Executive Center  
 20/F The Center  
 989 Changle Rd.  
 Shanghai, 200031  
 P.R. China  
 Phone: +(86) 21-5117-5848  
 Fax: +(86) 21-5117-5849  
 Mobile: +(86) 137-8897-2291  
 E-mail: [jyang@contdisc.com](mailto:jyang@contdisc.com)

### DUBAI

Continental Disc Corporation  
 P.O. Box 2234  
 Dubai, U.A.E.  
 Phone: +(971) 43214490  
 FAX: +(971) 43438840  
 Mobile: +(971) 508129525  
 E-mail: [kannan@contdisc.com](mailto:kannan@contdisc.com)