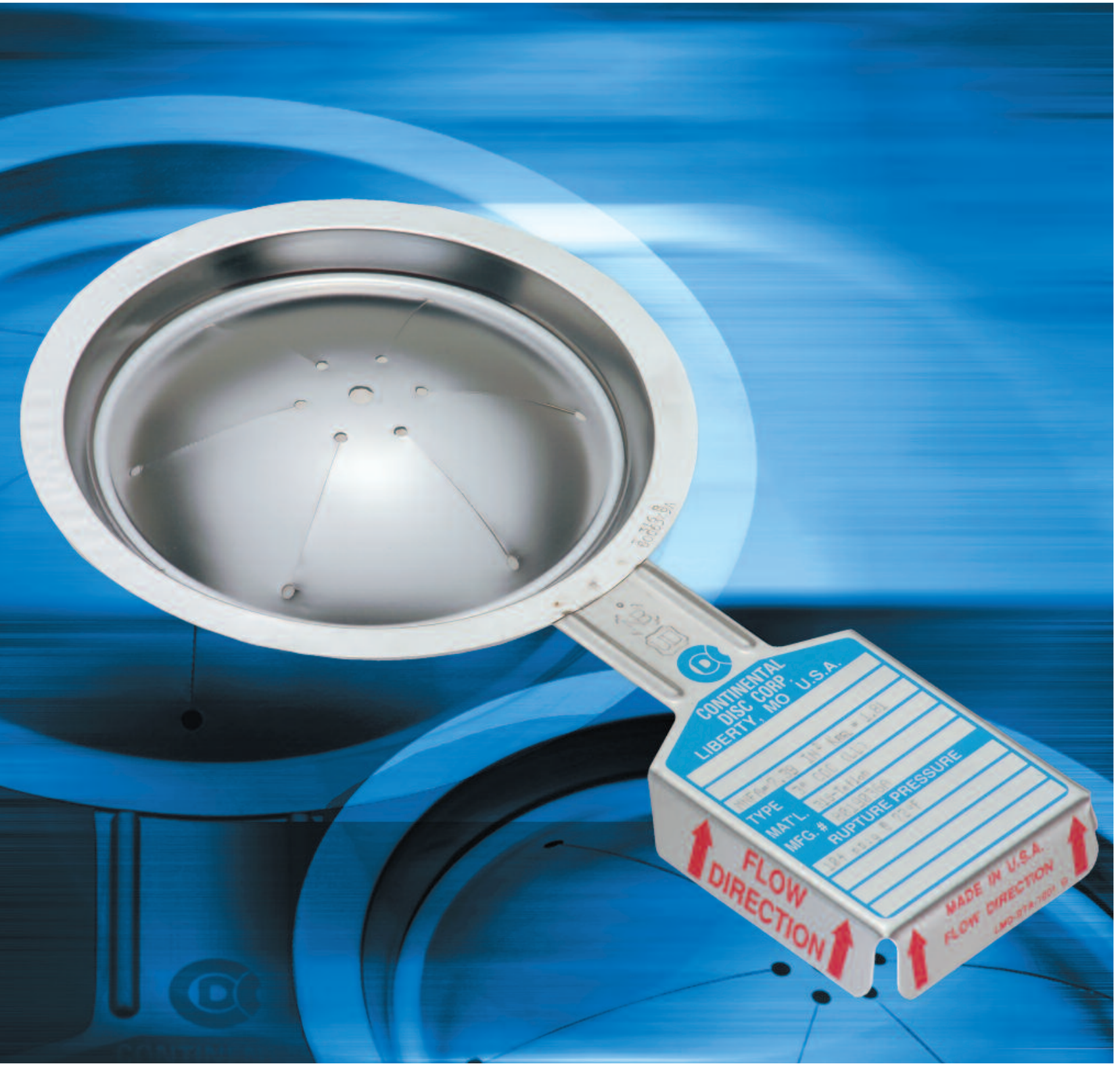
Composite Type Rupture Disc



Continental Disc®
Corporation

COMPOSITE* TYPE RUPTURE DISC

What is a Composite Type Rupture Disc?

A Composite Type Rupture Disc is a differential pressure relief device used to protect pressurized systems, equipment, and vessels from a potentially damaging overpressure condition. Continental's Composite Rupture Discs are designed to provide instantaneous, full-opening pressure relief.

Continental Disc offers two Composite Type rupture disc design styles, a preformed style, like the CDC or PLV Rupture Disc; and a flat style, like C.D.C.'s ENVIRO-SEAL Rupture Disc.

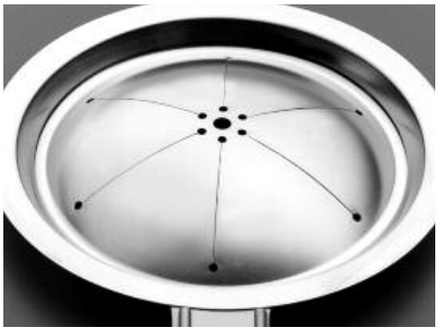
Preformed Composite Rupture Disc

A Preformed Composite Rupture Disc consists of two or more components of metallic or non-metallic materials. These components generally include a metallic top section, a metallic or nonmetallic seal member, and an optional vacuum support.

Preformed Composite Rupture Disc Features:

- Excellent performance in low pressure applications
- Operation to 80% of the rupture disc's rated (marked) burst pressure
- For use in gaseous or liquid service
- Made from a variety of corrosion resistant materials
- Non-fragmenting design when used with a non-metallic seal
- Ideal for use under a safety relief valve to isolate the valve from process media
- Provided with Continental's unique Three-Dimensional Flow Direction Tag as a standard

Unique Seven-Hole Design



Continental's Preformed Composite Rupture Discs also feature our seven-hole pattern, positioned at the apex of the rupture disc's top section. This unique configuration, in combination with the pre-cut sections along the dome, provide non-fragmenting characteristics when used with a non-metallic or TEFLON®** seal. By using this seven-hole design, thicker, more durable materials can be used to manufacture the rupture disc while still achieving the high 80% operating-to-burst-pressure ratio.

Various seal material options, such as TEFLONS and exotic metals, help insure excellent corrosion resistance. Continental's non-metallic seals are essential to minimize fragmentation. When ordering, please specify if your application requires a non-fragmenting rupture disc.

Recommended Operating Conditions

Continental's Preformed Composite Rupture Discs can be used in a variety of applications, including equipment operating at up to 80% of the rupture disc's rated (stamped) burst pressure and systems having either liquid or gas processes.

Under ideal operating conditions, such as static pressure and a temperature well below the maximum recommended for the rupture disc material used, Preformed Composite Rupture Discs may be subjected to operating pressures exceeding 80% of the rated (stamped) burst pressure. Contact the factory for additional information about the use of a Composite Rupture Disc above this 80% operating ratio.

Sizes and Materials

Sizes ranging from 1" through 30" (25mm to 750mm) are available with burst pressures from 1.5 psig to 1440 psig (0,10 barg to 100 barg). Because of the availability of a variety of seal materials, these rupture discs can be used in service temperatures of up to 1000°F (542°C) and can resist most corrosive and atmospheric conditions. The metallic top section can be manufactured from various materials to meet the needs of each individual application.



** TEFLON is a registered trademark of E.I. du Pont de Nemours and Company used under license.

COMPOSITE TYPE RUPTURE DISC

Each application has its own unique operating characteristics. Many variables such as pulsations, cycling, and operating-to-burst-pressure ratio must be considered in order to achieve maximum service life from the rupture disc.

Versatile operating characteristics, along with numerous customizable options like protective liners, protective rings, vacuum or backpressure support, gaskets, and Continental's exclusive B.D.I.® (Burst Disc Indicator) Alarm System provide a comprehensive selection to match Preformed Composite Rupture Discs with a wide range of system protection applications.

Seating Configurations

Preformed Composite Rupture Discs are available in a 30° angular "Light Lip" seat for normal operating pressures and in a "Flat Seat" design for superior metal-to-metal sealing. Refer to C.D.C. Bulletin 2-2203-2 for details.

Corrosion Protection

The design of Continental's Preformed Composite Rupture Discs allows the use of highly corrosion resistant seal materials. This is possible because the burst pressure rating of the rupture disc is determined by the slotted metal top section. Therefore, the seal or liner can be made from thin materials of anything from TEFLON to silver or gold and still provide a wide range of burst pressures – economically.

Protective Rings

Protective rings may be used on rupture discs made of thin materials or where delicate seals are used. These rings provide rigidity for easier handling and also help protect the rupture disc from foreign materials in the seating area, where a rupture disc holder may have become pitted or corroded from extended use.

Vacuum Support, Backpressure Support

In some burst pressures and materials, it is necessary to support a rupture disc when system backpressure occurs. Vacuum supports for Preformed Composite Rupture Discs, manufactured for and directly attached to the rupture disc, are available to withstand a full system vacuum to 14.7 psig (1,01 barg). For backpressures in excess of full vacuum, C.D.C. can supply a backpressure support specifically designed for your operating conditions.

When ordering a Preformed Composite Rupture Disc that will be subjected to a vacuum condition, clearly specify the conditions that the rupture disc will encounter. C.D.C. will supply the applicable support.



Three-Dimensional Flow Direction Tag*

Continental's innovative Three-Dimensional Flow Direction Tag provides instant visual verification that the rupture disc has been correctly oriented into the system. The 3-D tag extends beyond the holder to insure clear visibility for easier installation and inspection after the rupture disc has been installed.



* Rupture disc tags are not attached to rupture discs for use in Screw Type or Union Type Holders. Tags can be attached to a rupture disc for use in Union Type Holders when specified. Consult the factory for more information.

COMPOSITE TYPE RUPTURE DISC

Preformed Composite Rupture Disc Types

Continental Disc manufactures several Preformed Composite Rupture Discs to fit numerous applications.

CDC Type



The CDC Type Rupture Disc is the basic Preformed Composite Rupture Disc design consisting of a slotted metallic top section and a TEFLON or metallic seal on the top section's process side. This basic design provides corrosion protection and excellent performance in low pressure applications where no backpressure or vacuum is expected.

CDCV Type



The CDCV Type Rupture Disc is the same design as the CDC Type Rupture Disc, with the addition of a vacuum support installed on the process side of the seal. This design provides process side corrosion protection and support for full vacuum conditions.

PL and PLV Type



The PL Type Rupture Disc is similar to the CDC type, with the addition of a corrosion resistant TEFLON liner placed on the outlet side of the top section.

The PLV Type Rupture Disc is the same design as the PL Type Rupture Disc, but with the addition of a vacuum support. The vacuum support on this design, however, is located on the outlet side of the top section. The outlet liner is positioned above the vacuum support, protecting the metallic top section and the vacuum support from corrosive elements in the atmosphere.

ALARM SYSTEM

B.D.I.* (Burst Disc Indicator) Alarm System

In situations where immediate notification of pressure relief is critical, Continental's B.D.I. (Burst Disc Indicator) Alarm System should be used to automatically notify system operators that a rupture disc has burst.

The heart of the B.D.I. Alarm System is the B.D.I. Alarm Strip, a closed-path electrical strip adhered to a TEFLON membrane, which installs in conjunction with the rupture disc. When the rupture disc bursts, the alarm strip is severed, disrupting the electrical current supplied from a connected monitoring device. This "open-circuit" creates a signal to initiate alarms or equipment controlled by the monitoring device.

The B.D.I. Alarm Strip is computer compatible, resistant to corrosives, and operational over a wide range of temperatures.

Continental Disc also offers a full line of B.D.I. Alarm Monitors providing several beneficial features including visual and/or auditory alarm signals, as well as multi-channel modular designs. Intrinsically safe designs are also available. (Refer to C.D.C. Bulletin no. 5-7701-5)



Manufacturing Range

The manufacturing range is defined as the allowable pressure range within which a rupture disc is rated. It is based upon the customer specified burst pressure. The manufacturing ranges for Continental's Preformed Composite Rupture Discs are outlined in Table I. Special reduced manufacturing ranges are available upon request including 25%, 50%, and 75%. Please consult your C.D.C. representative or the factory for additional information.

Burst Tolerance

In accordance with ASME Code, a tolerance is applied to the rated (marked) burst pressure of a rupture disc. The rated (marked) burst pressure is established after the rupture disc has been manufactured by testing a minimum of two rupture discs and averaging the pressure at which each rupture disc bursts. This average is the rated (marked) burst pressure. A tolerance is then applied to this pressure to determine the maximum expected variation from the rupture disc's rated (marked) burst pressure.

As per ASME Code, the preformed Composite Rupture Disc is designed with a burst tolerance of ±2 psig (0,138 barg) for pressures up to and including 40 psig (2,76 barg) and ±5% for burst pressures above 40 psig (2,76 barg). Burst tolerances for Composite Rupture Discs rated below 15 psig (1,03 barg) are outlined in Table I. The burst tolerance applies only to the rated (marked) burst pressure on the rupture disc.

Recommended Temperatures

In general, burst pressures will decrease as operating temperatures increase. Table II shows the maximum temperatures for commonly used rupture disc materials, seals, and liners.

Table I - Manufacturing Range / Burst Tolerance

Rupture Disc Types	Specified Burst Pressure		Manufacturing Range		Rated (Marked) Burst Tolerance
	psig	barg	% Under	% Over	
CDC CDCV PL PLV	2 - 5	0,138 - 0,345	-40	+40	± 25%
	6 - 8	0,414 - 0,552	-40	+40	± 20%
	9 - 12	0,621 - 0,815	-30	+30	± 15%
	13 - 14	0,896 - 0,965	-10	+20	± 10%
	15 - 19	1,03 - 1,31	-10	+20	± 2 psig (± 0,138 barg)
	20 - 40	1,38 - 2,76	-4	+14	± 2 psig (± 0,138 barg)
	41 - 50	2,83 - 3,45	-4	+14	±5%
	51 - 100	3,52 - 6,90	-4	+10	
	101 - 500	6,96 - 34,48	-4	+7	
	501 - UP	34,54 - UP	-3	+6	

Table II - Maximum Temperature for Rupture Disc Materials, Liners, and Coatings

Temperature Rating		
Materials	°F	°C
Aluminum / Silver	260	127
Nickel / Monel®*	800	427
316SS	900	482
Inconel®*	1000	538
FEP TEFLON Seal or Lining	400	204
TFE or PFA Seal or Lining	500	260

* Monel and Inconel are registered trademarks of the Inco family of companies.

SPECIFICATIONS

Table III - Minimum / Maximum Burst Pressures for Preformed Composite Rupture Discs @ 72° F (22° C)

Minimum Pressure for Preformed Composite Rupture Discs with Fluoropolymer Seal								
Size In (mm)	CDC		CDCV		PL		PLV	
	TFE psig (barg)	FEP, PFA psig (barg)	TFE psig (barg)	FEP, PFA psig (barg)	TFE psig (barg)	FEP, PFA psig (barg)	TFE psig (barg)	FEP, PFA psig (barg)
1 (25)	25.0 (1,72)	30.0 (2,07)	30.0 (2,07)	35.0 (2,41)	35.0 (2,41)	40.0 (2,76)	60.0 (4,14)	80.0 (5,52)
1.5 (40)	22.0 (1,52)	27.0 (1,86)	25.0 (1,72)	34.0 (2,34)	32.0 (2,21)	38.0 (2,62)	60.0 (4,14)	75.0 (5,17)
2 (50)	7.00 (0,483)	15.0 (1,03)	10.0 (0,690)	18.0 (1,24)	15.0 (1,03)	20.0 (1,38)	28.0 (1,93)	35.0 (2,41)
3 (80)	6.00 (0,414)	8.00 (0,552)	8.00 (0,552)	11.0 (0,759)	11.0 (0,759)	16.0 (1,10)	18.0 (1,24)	25.0 (1,72)
4 (100)	5.00 (0,345)	7.00 (0,483)	7.00 (0,483)	8.00 (0,552)	6.00 (0,414)	9.00 (0,621)	15.0 (1,03)	18.0 (1,24)
6 (150)	3.00 (0,207)	4.00 (0,276)	5.00 (0,345)	7.00 (0,483)	5.00 (0,345)	7.00 (0,483)	12.0 (0,828)	14.0 (0,966)
8 (200)	2.00 (0,138)	3.00 (0,207)	5.00 (0,345)	5.00 (0,345)	4.00 (0,276)	5.00 (0,345)	11.0 (0,759)	11.0 (0,759)
10 (250)	-	3.00 (0,207)	-	5.00 (0,345)	-	5.00 (0,345)	-	8.00 (0,552)
12 (300)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
14 (350)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
16 (400)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
18 (450)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
20 (500)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
24 (600)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)
30 (750)	-	2.00 (0,138)	-	4.00 (0,276)	-	5.00 (0,345)	-	8.00 (0,552)

Note: Minimum pressures are based upon the minimum of the manufacturing range @ 72°F (22°C). Preformed Composite Rupture Discs specified at a minimum rating will have the manufacturing range added above the minimum pressure. For example, a 3" (80 mm) CDC with FEP seal requested to burst at 8 psig (0,55 barg) will have a standard manufacturing range of 8 psig to 14.4 psig (0,55 - 1,0 barg).

NOTE: 1. Minimum pressures in Table III are based upon the minimum of the manufacturing range @ 72°F (22°C). Preformed Composite Rupture Discs specified at a minimum rating will have the manufacturing range added above the minimum pressure. For example, a 3" (80mm) CDC with FEP seal requested to burst at 8 psig (0,55 barg) will have a standard manufacturing range of 8 psig to 14.4 psig (0,55 - 1,0 barg).

Min. Pressure for Preformed Composite Rupture Discs w/Metallic Seal For CDC and CDCV Type Discs						Maximum Pressure for Compositie Discs with		Size In (mm)
Aluminum psig (barg)	Silver psig (barg)	Nickel psig (barg)	Monel psig (barg)	Inconel psig (barg)	316SS psig (barg)	Fluoropolymer Seal psig (barg)	Metallic Seal psig (barg)	
38.0 (2,62)	150 (10,3)	190 (13,1)	230 (15,9)	292 (20,1)	442 (30,5)	500 (34,5)	1440 (99,3)	1 (25)
29.0 (2,00)	100 (6,90)	130 (8,97)	150 (10,3)	208 (14,3)	228 (15,7)	500 (34,5)	1440 (99,3)	1.5 (40)
17.0 (1,17)	60.0 (4,14)	78.0 (5,38)	90.0 (6,21)	124 (8,55)	208 (14,3)	290 (20,0)	1100 (75,9)	2 (50)
13.0 (0,897)	45.0 (3,10)	59.0 (4,07)	65.0 (4,48)	98.0 (6,76)	130 (8,97)	160 (11,0)	900 (62,1)	3 (80)
9.00 (0,621)	34.0 (2,34)	46.0 (3,17)	52.0 (3,59)	72.0 (4,97)	98.0 (6,76)	160 (11,0)	720 (49,7)	4 (100)
7.00 (0,483)	26.0 (1,79)	33.0 (2,28)	39.0 (2,69)	56.0 (3,86)	65.0 (4,48)	130 (640)	640 (44,1)	6 (150)
5.00 (0,345)	20.0 (1,38)	26.0 (1,79)	30.0 (2,07)	39.0 (2,69)	52.0 (3,59)	110 (7,59)	590 (40,7)	8 (200)
5.00 (0,345)	-	21.0 (1,45)	22.0 (1,52)	33.0 (2,28)	46.0 (3,17)	90.0 (6,21)	480 (33,1)	10 (250)
4.00 (0,276)	-	17.0 (1,17)	20.0 (1,38)	29.0 (2,00)	39.0 (2,69)	80.0 (5,52)	400 (27,6)	12 (300)
4.00 (0,276)	-	14.0 (0,966)	17.0 (1,17)	27.0 (1,86)	36.0 (2,48)	70.0 (4,83)	275 (19,0)	14 (350)
4.00 (0,276)	-	13.0 (0,897)	16.0 (1,10)	25.0 (1,72)	34.0 (2,34)	60.0 (4,14)	275 (19,0)	16 (400)
4.00 (0,276)	-	12.0 (0,828)	14.0 (0,966)	22.0 (1,52)	31.0 (2,14)	50.0 (3,45)	275 (19,0)	18 (450)
4.00 (0,276)	-	10.0 (0,690)	12.0 (0,828)	21.0 (1,45)	29.0 (2,00)	50.0 (3,45)	275 (19,0)	20 (500)
4.00 (0,276)	-	-	-		-	50.0 (3,45)	150 (10,3)	24 (600)
4.00 (0,276)	-	-	-		-	50.0 (3,45)	-	30 (750)

* Maximum pressures apply to all metals except silver. Consult your CDC representative or the factory for maximum pressures for this material.
** When ordering, please specify when a 1" (25 mm), 1 ½" (40 mm) or 2" (50 mm) rupture disc will be used in a Union Type Holder. Consult the factory if you require tags to be attached to rupture discs used in Union Type Holders.
*** For information concerning conditions of rupture disc sizes not shown, please consult your CDC representative or the factory.

2. Maximums included in Table III apply to all metals except silver. Consult your C.D.C. representative or the factory for maximum pressures for this material.

3. When ordering, please specify when a 1" (25mm), 1-1/2" (40mm) or 2" (50mm) rupture disc will be used in a Union Type Holder. Consult the factory if you require tags to be attached to rupture discs used in Union Type Holders.

4. For information concerning conditions or rupture disc sizes not shown, please consult your C.D.C. representative or the factory.

ENVIRO-SEAL RUPTURE DISCS

ENVIRO-SEAL Rupture Discs

In addition to the Preformed Composite Rupture Disc, Continental Disc also manufactures a flat composite rupture disc design, the ENVIRO-SEAL Rupture Disc. The ENVIRO-SEAL Rupture Disc is designed to provide economical protection for low pressure atmospheric storage vessels and to isolate the downstream side of pressure relief valves and other equipment from corrosive environments.

ENVIRO-SEAL Rupture Disc Features

- Excellent performance in low pressure applications
- Operation to 50% of the rupture disc's rated (marked) burst pressure
- For use in gaseous or liquid service
- Non-fragmenting design
- Ideal for use in isolating the downstream side of a pressure relief valve from process media
- Provided with a Three-Dimensional Flow Direction Tag as a standard

The ENVIRO-SEAL Rupture Disc is typically used as a corrosion barrier or environmental seal. It is a flat Composite style rupture disc that installs between standard bore ANSI, DIN, or JIS companion flanges.

The components of the ENVIRO-SEAL Rupture Disc typically consist of a metallic top section and a non-metallic seal on the process side, on both the process and the vent side, or between two metallic top sections.

The top section of the ENVIRO-SEAL Rupture Disc is designed for non-fragmentation, utilizing Continental's seven-hole pattern.

As a standard, the ENVIRO-SEAL is manufactured from 316 Stainless Steel, TEFLON seals, and a non-asbestos gasket on both sides of the rupture disc. Standard sizes range from 2" (50mm) through 36" (900mm).

ENVIRO-SEAL Rupture Disc Types

Continental Disc manufactures three types of ENVIRO-SEAL Rupture Discs to fit various applications.

ENVIRO-SEAL Type I



The ENVIRO-SEAL Type I Rupture Disc is designed to burst in only one direction. The rupture disc consists of a single metallic top section located on the vent side of the rupture disc with a single non-metallic seal located on the process side of the rupture disc. The ENVIRO-SEAL Type I Rupture Disc provides excellent protection and corrosion resistance for applications requiring single direction overpressure protection.

ENVIRO-SEAL Type II



The ENVIRO-SEAL Type II Rupture Disc is designed to burst in either the positive or vacuum direction, at the same burst pressure. Seal material is located on both the vent and the process sides of a single top section, providing a completely lined rupture disc. This feature provides a durable corrosion barrier from both process media and atmospheric corrosives while maintaining dual direction protection.

ENVIRO-SEAL Type III



The ENVIRO-SEAL Type III Rupture Disc is also designed to burst in either the positive or vacuum direction at the same burst pressure. However, the ENVIRO-SEAL Type III Rupture Disc consists of two metallic top sections, one located on the process side and one on the vent side of the rupture disc. A single seal is located between the two top sections.

The two top section configuration of the ENVIRO-SEAL Type III Rupture Disc design results in a durable low pressure protection design with enhanced performance under non-static pressure conditions.

ENVIRO-SEAL Rupture Disc Specifications

The ENVIRO-SEAL Rupture Disc is not preformed, therefore, its maximum operating pressure is limited to 50% of the burst rating of the rupture disc.

ENVIRO-SEAL Rupture Discs are stamped with the minimum / maximum burst pressure at a specified temperature. Recommended maximum temperature for a rupture disc with TEFLON seals is 400°F (204°C). The recommended maximum temperature for a rupture disc with Polyethylene seals is 150°F (66°C). Polyethylene seals may be used for lower pressures at the discretion of Continental Disc. Other top section materials are available on request. Refer to Table IV for minimum/maximum burst pressures for ENVIRO-SEAL Rupture Discs.

For applications requiring critical overpressure protection, contact the factory or your Continental Disc Corporation representative for product application information.

Table IV - Minimum / Maximum Burst Pressures for ENVIRO-SEAL Rupture Discs @ 72°F (22°C)

Nominal Disc Sizes Available		Burst Pressure Min / Max		Maximum Operating Pressure	
in	mm	psig	barg	psig	barg
2 - 18	50 - 450	50 - 59	3,45 - 4,07	25	1,72
2 - 20	50 - 500	42 - 50	2,90 - 3,45	21	1,45
2 - 24	50 - 600	36 - 43	2,48 - 2,96	18	1,24
2 - 30	50 - 750	30 - 36	2,07 - 2,48	15	1,03
2 - 36	50 - 900	24 - 30	1,65 - 2,07	12	0,827
2 - 36	50 - 900	20 - 25	1,38 - 1,72	10	0,689
2 - 36	50 - 900	16 - 21	1,10 - 1,45	8.0	0,552
2 - 36	50 - 900	14 - 18	0,965 - 1,24	7.0	0,483
2 - 36	50 - 900	12 - 15	0,827 - 1,03	6.0	0,414
2 - 36	50 - 900	11 - 14	0,758 - 0,965	5.5	0,379
2 - 36	50 - 900	10 - 13	0,689 - 0,896	5.0	0,345
2 - 36	50 - 900	9.0 - 12	0,621 - 0,827	4.5	0,310
2 - 36	50 - 900	8.0 - 11	0,552 - 0,758	4.0	0,276
2 - 36	50 - 900	7.0 - 10	0,483 - 0,689	3.5	0,241
2 - 36	50 - 900	6.0 - 9.0	0,414 - 0,621	3.0	0,207
3 - 36	80 - 900	5.0 - 8.0	0,345 - 0,552	2.5	0,172
3 - 36	80 - 900	4.0 - 7.0	0,276 - 0,483	2.0	0,138
4 - 36	100 - 900	3.0 - 5.0	0,207 - 0,345	1.5	0,103
6 - 36	150 - 900	2.0 - 4.0	0,138 - 0,276	1.0	0,069
8 - 36	200 - 900	1.6 - 3.6	0,110 - 0,248	0.8	0,055
10 - 36	250 - 900	1.2 - 3.2	0,083 - 0,221	0.6	0,041
12 - 36	300 - 900	1.0 - 3.0	0,069 - 0,207	0.5	0,034

NOTE: The rupture disc's manufacturing range and burst tolerance are included in the burst pressure minimum / maximum.

ORDERING

To assure selection of the correct rupture disc and holder for your application, please determine the following:

Preformed Composite Rupture Disc: Quantity _____ Size _____ Description: **CDC, CDCV, PL, PLV**

Material: _____

Rated Burst Pressure: _____ psig or barg @ _____ °F or °C

Manufacturing range: _____ (See Table I)

Burst Tolerance: _____ (See Table I)

Manufacturing number: _____ (if replacing current Continental rupture disc installed)

Seating Configuration: _____ (30° Light Lip, Flat Seat)

Options: • ASME Code testing required / other code testing required

- Protective rings
- Vacuum / Backpressure Support (if required)
- Gaskets
- B.D.I. Alarm System
- Non-fragmenting design (if required)

ENVIRO-SEAL Rupture Disc: Quantity: _____ Size: _____ Description: **ENVIRO-SEAL Type I, II, or III**

Rated Burst Pressure: Min / Max _____/_____ psig or barg @ _____ °F or °C

(Manufacturing range and burst tolerance are included in the burst pressure min / max range)

Manufacturing number: _____ (if replacing current Continental rupture disc installed)

Options • ASME testing required

Holder: Quantity: _____ Size: _____

Material: Inlet _____ Outlet _____

Configuration: (for Screw Type and Union Type Holders)

Inlet _____ Outlet _____ Threaded Connection Size _____

Accessories: (for Insert Type and Full Bolted Holders)

- Gauge Tap
- Nipple and Tee
- Excess Flow Valve
- Pressure Gauge
- Special Facing: Inlet _____ Outlet _____
- TEFLON Coating

OTHER SPECIFICATIONS

Operating Specifications:

1. Maximum allowable working pressure (M.A.W.P.)
2. Operating pressure
3. Operating temperature
4. Actual vacuum / backpressure
5. Cycle conditions
6. Required flow rate
7. Media
8. Molecular weight / specific gravity

Quality Assurance / Documentation:

1. Code: ASME, ISO, EN, DIN, JIS, BSI or other
2. Special cleaning
3. Special packaging
4. Special tagging
5. Temperature testing
6. Material test reports
7. Other

WEIGHTS AND DIMENSIONS

Table VI - 30° Insert Holder Weights and Dimensions

Nominal Size	ANSI		DIN		JIS		Height	Weight
	Class	Outside Dia. in / mm	Class	Outside Dia. mm	Class	Outside Dia. mm	(in / mm)	(lbs / kg)
	150	2.50 / 63.5					1.67 / 42	1.9 / 0,90
	300 / 600	2.75 / 69,9	10 / 40	69,9	10 / 20	69,9	1.67 / 42	2.5 / 1,1
1"					30 / 40	76,0	1.67 / 42	2.9 / 1,3
25mm			64 / 160	82,0			2.38 / 60	4.9 / 2,2
			250	82,0			2.38 / 60	4.9 / 2,2
	900 / 1500	3.00 / 76,2					2.38 / 60	4.1 / 1,9
	2500	3.25 / 82,6					2.59 / 66	5.4 / 2,4
	150	3.25 / 82,6					1.67 / 42	3.0 / 1,4
					10 / 20	86,0	1.67 / 42	3.4 / 1,5
	300 / 600	3.63 / 92,2	10 / 40	92,2			1.67 / 42	4.0 / 1,8
1 1/2"	900 / 1500	3.75 / 95,3					2.66 / 68	6.9 / 2,7
40mm					30 / 40	97,0	1.67 / 42	4.5 / 2,0
			64 / 160	102,0			2.66 / 68	8.1 / 3,7
			250	108,0			2.66 / 68	10 / 4,5
	2500	4.50 / 114,3					3.63 / 92	14 / 6,5
	150	4.00 / 101,6			10	101,6	1.67 / 42	3.6 / 1,6
					16 / 20	101,6	1.67 / 42	3.6 / 1,6
	300 / 600	4.25 / 108,0	10 / 40	108,0			1.67 / 42	4.3 / 2,0
2"			64	111,0	30 / 40	111,0	1.67 / 42	4.8 / 2,2
50mm			100 / 160	118,0			3.15 / 80	11 / 5,0
			250	123,0			3.15 / 80	13 / 5,9
	900 / 1500	5.50 / 139,7					3.15 / 80	17 / 7,8
	2500	5.63 / 143,0					3.71 / 94	22 / 10
					10	131,0	1.67 / 42	5.2 / 2,4
	150	5.25 / 133,4					1.67 / 42	5.5 / 2,5
					16 / 20	137,0	1.67 / 42	6.1 / 2,8
			10	142,0			2.13 / 54	8.9 / 4,0
3"			16 / 40	142,0			2.13 / 54	8.9 / 4,0
80mm	300 / 600	5.75 / 146,1	64	146,1	30 / 40	146,1	2.13 / 54	10 / 4,5
			100 / 160	153,0			3.21 / 82	19 / 8,6
	900	6.50 / 165,1					3.21 / 82	23 / 10
			250	170,0			3.71 / 94	29 / 13
	1500	6.75 / 171,5					3.71 / 94	29 / 13
	2500	7.63 / 193,8					4.15 / 105	44 / 20
					10	156,0	1.67 / 42	6.0 / 2,7
			10 / 16	162,0	16 / 20	162,0	1.67 / 42	7.4 / 3,4
			25 / 40	168,0	30	168,0	2.15 / 55	12 / 5,4
	150	6.75 / 171,5					1.67 / 42	9.1 / 4,1
			64	173,0			3.13 / 79	18 / 8,3
4"	300	7.00 / 177,8					2.15 / 55	13 / 5,9
100mm					40	180,0	2.15 / 55	14 / 6,4
			100 / 160	180,0			3.63 / 92	26 / 12
	600	7.50 / 190,5					3.13 / 79	25 / 11
			250	202,0			4.35 / 111	45 / 20
	900	8.00 / 203,2					3.63 / 92	37 / 17
	1500	8.13 / 206,5					4.35 / 111	47 / 22
	2500	9.13 / 231,9					6.15 / 156	91 / 41
			10 / 16	217,0	10	217,0	2.06 / 52	16 / 7,2
	150	8.63 / 219,2					2.06 / 52	17 / 7,7
			25 / 40	223,0			2.93 / 74	26 / 12
					16 / 20	235,0	2.06 / 52	22 / 9,7
6"			64	247,0			3.96 / 101	55 / 25
150mm	300	9.75 / 247,7			30	247,7	2.93 / 74	37 / 17
			100 / 160	257,0			4.53 / 115	71 / 32
					40	262,0	2.93 / 74	44 / 20
	600	10.38 / 263,7					3.96 / 101	66 / 30
	900	11.25 / 285,8					4.53 / 115	95 / 43
	2500	12.38 / 314,5					6.13 / 155	168 / 76
					10	267,0	2.31 / 58	25 / 11
			10 / 16	272,0			2.31 / 58	27 / 12
	150	10.88 / 276,4					2.31 / 58	29 / 13
					16 / 20	280,0	2.31 / 58	31 / 14
8"			25	283,0			3.30 / 84	44 / 20
200mm			40	290,0			3.30 / 84	48 / 22
					30	293,0	3.30 / 84	50 / 23
	300	12.00 / 304,8					3.30 / 84	58 / 26
			64	309,0			4.50 / 114	83 / 38
					40	312,0	3.30 / 84	63 / 29
	600	12.50 / 317,5					4.50 / 114	91 / 41

Nominal Size	ANSI		DIN		JIS		Height	Weight
	Class	Outside Dia. in / mm	Class	Outside Dia. mm	Class	Outside Dia. mm	(in / mm)	(lbs / kg)
			10 / 16	327,0			2.55 / 65	34 / 15
					10	330,0	2.55 / 65	36 / 16
	150	13.25 / 336,6					2.55 / 65	40 / 18
			25	340,0			4.18 / 106	69 / 31
10"			40	352,0			4.18 / 106	81 / 37
250mm					16 / 20	353,0	2.55 / 65	49 / 22
					30	357,0	4.18 / 106	86 / 39
	300	14.13 / 358,9					4.18 / 106	88 / 40
			64	364,0			5.00 / 127	128 / 58
					40	377,0	4.18 / 106	107 / 49
			100	391,0			5.00 / 127	163 / 74
	600	15.63 / 397,0					5.00 / 127	171 / 78
					5	367,0	2.55 / 65	36 / 16
					10	375,0	2.55 / 65	41 / 19
			10	377,0			2.55 / 65	42 / 19
			16	383,0			2.55 / 65	46 / 21
12"			25	400,0			4.13 / 105	94 / 43
300mm					16 / 20	403,0	2.55 / 65	60 / 27
	150	16.00 / 406,4					2.55 / 65	62 / 28
			40	417,0	30	417,0	4.13 / 105	114 / 52
	300	16.50 / 419,1					4.13 / 105	116 / 53
			64	424,0			5.43 / 138	161 / 73
					40	431,0	4.13 / 105	130 / 59
	600	17.88 / 454,2					5.43 / 138	211 / 96
					5	410,0	2.75 / 70	39 / 18
					10	420,0	2.75 / 70	46 / 21
			10	437,0			2.75 / 70	60 / 27
14"			16	443,0			2.75 / 70	65 / 29
350mm	150	17.63 / 447,8			16 / 20	447.8	2.75 / 70	69 / 31
			25	457,0			4.37 / 111	123 / 56
					30	462,0	4.37 / 111	130 / 59
			40	474,0			4.37 / 111	146 / 66
					40	474,0	4.37 / 111	149 / 68
	300	19.00 / 482,6					4.37 / 111	159 / 77
16"	150	20.13 / 511,3					2.94 / 75	95 / 43
400mm	300	21.13 / 536,7					4.56 / 116	191 / 87
			40	546,0			4.56 / 116	207 / 94
	150	21.50 / 546,1					3.13 / 79	94 / 43
18"					16 / 20	572,0	3.13 / 79	125 / 57
450mm	300	23.38 / 593,9					4.87 / 124	239 / 108
	600	24.00 / 609,6					6.12 / 155	341 / 155
	150	23.75 / 603,3					3.46 / 90	123 / 56
20"			16	617,0			3.46 / 90	143 / 65
500mm					16 / 20	627,0	3.46 / 90	158 / 72
	300	25.63 / 651,0					5.06 / 129	287 / 130
	150	28.13 / 714,5					3.87 / 98	183 / 83
24"					16 / 20	731,0	3.87 / 98	215 / 97
600mm			16	734,0			3.87 / 98	220 / 100
	300	30.38 / 771,7					5.56 / 141	426 / 193
	150	34.63 / 879,6					4.43 / 113	292 / 132
30"					16	893,0	4.43 / 113	328 / 149
750mm					20	914,0	4.43 / 113	385 / 175

NOTE: Consult factory for availability of flange classes or sizes not listed.

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