

# Standard Type Rupture Disc

2-2201-2



**Continental Disc<sup>®</sup>  
Corporation**


*Performance Under Pressure<sup>®</sup>*

# STANDARD TYPE RUPTURE DISC

## What is a Standard Type Rupture Disc?

Continental Disc Corporation's Standard Rupture Disc is a solid metal, differential pressure relief device that provides instantaneous overpressure protection for systems, equipment and vessels. The Standard Rupture Disc provides a full-opening design that responds within milliseconds to potentially damaging overpressure accumulation, permitting its use in a variety of protection applications.

The Standard Rupture Disc features:

- Availability of a wide range of sizes, materials and burst pressure ratings for use in numerous protection applications.
- A full-opening design for optimum flow and reliable performance.
- For use in liquid or gas service and systems operating at up to 70% of the rupture disc's rated burst pressure.
- Provided with an attached 3-Dimensional Flow Direction Tag, as a standard on all sizes 1" (25mm) and above, for easy visual verification of proper rupture disc orientation.
- Available with Continental's B.D.I.\* (Burst Disc Indicator) Alarm System for immediate notification of overpressure relief occurring through the rupture disc.
- Custom manufactured under Continental's ISO 9001 Certified Quality Assurance System.
- Available for use with a variety of traditional or specialized holder designs to complement your system requirements.
- ASME  Code Symbol Stamp available for product built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

## Sizes and Materials

The Standard Rupture Disc is available in nominal sizes ranging from 1/4" to 30" (6mm to 750mm) with pressures from 3 psig to 80,000 psig (0,207 barg to 5516 barg). Available materials include Aluminum, Silver, Nickel, Monel®, Inconel® and 316 Stainless Steel. (Refer to Table II for sizes and burst pressure ratings available in each material.)

## Recommended Operating Ratio

The Standard Rupture Disc can be used in a variety of applications, including equipment operating at up to 70% of the rupture disc's rated (stamped) burst pressure and systems having either liquid or gas process medias.

Under ideal operating conditions, such as static pressure and a temperature well below the maximum recommended for the rupture disc material used, the Standard Rupture Disc may be subjected to an operating pressure exceeding 70% of the rated (stamped) burst pressure. Contact the factory for additional information about the use of a Standard Rupture Disc above the 70% operating ratio.

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



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. Alarm System provide a comprehensive selection to match the Standard Rupture Disc with a wide range of system protection applications.

## Seating Configurations

Continental's Standard Rupture Disc is available in a 30° angular "Light-Lip" seat for normal operating pressures and a 30° angular "Heavy-Lip" seat for higher pressures. Size, burst pressure of the rupture disc and flange class determine the recommended seat design. Refer to Table I for information on application of Heavy-Lip seating.

**Table I - Recommended Usage for Heavy-Lip Seating Design**

White bar indicates "psig" • Grey bar indicates "barg"

Nominal Size	For Rupture Disc Ratings Greater Than psig/barg	Flange Class		
		ASME	DIN	JIS
1/2 in	2160	1500-UP		
13 mm	160		250-UP	-
1 in	2160	1500-UP		
25 mm	160		250-UP	-
1 1/2 in	1440	900-UP		
40 mm	100		160-UP	-
2 in	1440	900-UP		
50 mm	100		160-UP	-
3 in	2160	1500-UP		
80 mm	160		250-UP	-
4 in	2160	1500-UP		
100 mm	160		250-UP	-

NOTE: All other sizes and classes will be provided with "Light Lip" design.

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



## Protective Liners, Protective Rings

For additional protection against media or atmospheric elements, Continental offers both protective liners and coatings to help reduce the effect corrosives may have on the service life of the rupture disc. Typically, *liners* are made from Teflon®\*. Teflon or other *coat-ings* are also used to shield the rupture disc from corrosive processes.

Protective rings may be used on rupture discs made of thin materials or where delicate protective liners 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

Because some burst pressures require the use of thin materials, it may be necessary to support the rupture disc when a system vacuum or backpressure occurs. C.D.C. vacuum supports, manufactured for and directly attached to the rupture disc, are designed to withstand a full system vacuum, to 14.7 psig (1,01 barg). For backpressures in excess of full vacuum, Continental can supply a Backpressure Support specifically designed to withstand the system operation conditions.

When ordering a Standard Rupture Disc that will be subjected to vacuum or backpressure, clearly specify the operating conditions. C.D.C. will furnish the appropriate support design for the application.

## Gaskets

In cases where scratching or pitting has blemished the seating surface of the holder, a gasket may be required to enhance sealing. The gasket lines the seating area on the process side of the rupture disc to seal the assembly and help prevent leakage. As a standard, Teflon gaskets are provided. Other materials, for specialized applications, are available upon request.

## B.D.I. Alarm System

In situations where immediate notification of overpressure 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. The B.D.I. Alarm Strip consists of a copper wire,

adhered to a Teflon membrane, that is installed 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 the signal to initiate alarms or equipment controlled by the monitoring device.

C.D.C.'s B.D.I. Alarm Strip is computer compatible, resistant to corrosives, and operational over a wide range of temperatures. The B.D.I. Alarm System is available for use with Standard Rupture Discs utilizing Insert or Full Bolted Holders in sizes 1" through 30" (25mm through 750mm).

Continental Disc also offers a full line of B.D.I. Alarm Monitors providing several beneficial features including visual and / or auditory alarm signals and multi-channel modular, Factory Mutual approved, and Intrinsically Safe designs. Refer to C.D.C. Bulletin #5-7701-5 for details.



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

# SPECIFICATIONS

## Manufacturing Range

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 Standard Rupture Discs are outlined in Table III. Special reduced manufacturing ranges are available on request including 25%, 50% and 75% of the standard range. 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 or stamped burst pressure of a rupture disc. The rated (stamped) burst pressure is established after the rupture disc has been manufactured, by testing a minimum of two rupture discs from a lot and averaging the pressure at which the rupture discs burst. This average is the rated (stamped) burst pressure. The applicable tolerance is then applied to this pressure to determine the maximum expected burst pressure variation.

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



Table II - Standard Type Rupture Disc Minimum / Maximum Pressures @ 72°F (22°C)

White bar indicates "psig" • Grey bar indicates "barg"

Rupture Disc Nominal Size	Standard Rupture Disc Minimum Burst Pressure						Standard Rupture Disc Minimum Burst Pressure with Teflon Liner (Add to Rupture Disc Minimum Burst Pressure)	
	Alum	Silver	Nickel	Monel	Inconel	316 SS	Inlet or Outlet Only	Both Inlet and Outlet
1/4 in	160	450	600	700	1120	1550	-	-
6mm	11,0	31,0	41,4	48,3	77,2	107	-	-
1/2 in	65	220	300	350	560	760	150	300
13mm	4,48	15,2	20,7	24,1	38,6	52,4	10,3	20,7
1 in	29	120	150	180	250	420	50	100
25mm	2,00	8,27	10,3	12,4	17,2	29,0	3,45	6,90
1 1/2 in	22	80	100	116	150	275	35	70
40mm	1,52	5,52	6,90	8,00	10,3	19,0	2,41	4,83
2 in	13	48	60	70	110	150	25	50
50mm	0,896	3,31	4,14	4,83	7,58	10,3	1,72	3,45
3 in	10	35	45	50	80	117	15	30
80mm	0,690	2,41	3,10	3,45	5,52	8,07	1,03	20,7
4 in	7	26	35	40	70	90	11	22
100mm	0,483	1,79	2,41	2,76	4,83	6,21	0,759	1,52
6 in	5	20	25	30	47	62	8	16
150mm	0,345	1,38	1,72	2,07	3,24	4,27	0,552	1,10
8 in	4	15	20	23	34	51	6	12
200mm	0,276	1,03	1,38	1,59	2,34	3,52	0,414	0,827
10 in	4	-	16	17	30	43	5	10
250mm	0,276	-	1,10	1,17	2,07	2,96	0,345	0,690
12 in	3	-	13	15	25	36	4	8
300mm	0,207	-	0,900	1,03	2,14	2,48	0,276	0,552
14 in	3	-	11	13	21	31	4	8
350mm	0,207	-	0,759	0,900	1,45	2,14	0,276	0,552
16 in	3	-	10	12	19	28	3	6
400mm	0,207	-	0,690	0,827	1,31	1,93	0,207	0,414
18 in	3	-	9	11	17	24	3	6
450mm	0,207	-	0,621	0,759	1,17	1,65	0,207	0,414
20 in	3	-	8	9	16	22	3	6
500mm	0,207	-	0,552	0,621	1,10	1,52	0,207	0,414
24 in	3	-	21	-	38	33	2	4
600	0,207	-	1,45	-	2,62	2,28	0,138	0,276
30 in	3	-	17	-	30	26	2	4
750mm	0,207	-	1,17	-	2,07	1,79	0,138	0,276

1. Minimum pressures in Table II are based upon the minimum of the manufacturing range @ 72°F (22°C). Standard Type Rupture Discs specified

at a minimum rating will have the manufacturing range added above the minimum pressure (i.e. 3" (80mm) Standard made of nickel requested to burst at 45

psig (3,10 barg) will have a standard manufacturing range of 45 psig to 53 psig (3,10 barg to 3,65 barg)).

Table III - Manufacturing Range / Burst Tolerance

	Specified Burst Pressure		Manufacturing Range		Rated (Stamped) Burst Tolerance
	psig	barg	% Under	% Over	
STD	2 - 5	0,138 - 0,345	-40	+40	±25%
STD-V	6 - 8	0,414 - 0,552	-40	+40	±20%
with or w/o Linings, Coatings	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	



Recommended Temperatures

In general, burst pressures will decrease as operating temperatures increase. Refer to Table IV for recommended maximum temperatures.

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

Materials	Temperature Limit	
	°F	°C
Aluminum / Silver	260	127
Nickel / Monel	800	427
316SS	900	482
Inconel	1000	538
FEP Teflon Lining or Coating	400	204
TFE or PFA Lining	500	260

	Standard Rupture Disc Maximum Burst Pressure with Optional Liners						Protective Ring: When Burst Pressure is less than value stated below, a Protective Ring is recommended.						Rupture Disc Nominal Size
	Alum	Silver	Nickel	Monel	Inconel	316SS	Alum	Silver	Nickel	Monel	Inconel	316SS	
	-	-	-	-	-	-	-	-	-	-	-	-	1/4 in
	-	-	-	-	-	-	-	-	-	-	-	-	6mm
	1500	1500	6000	6000	10000	10000	520	1300	2290	3000	3600	3700	1/2 in
	103	103	414	414	690	690	35,9	89,6	158	207	248	255	13mm
	1000	1000	3000	3000	5000	5000	260	650	1145	1500	1800	1830	1 in
	69,0	69,0	207	207	345	345	18,0	44,8	78,9	103	124	126	25mm
	700	700	2000	2000	3400	3400	180	450	790	1030	1240	1255	1 1/2 in
	48,3	48,3	138	138	234	234	12,4	31,0	54,5	71,0	85,5	86,5	40mm
	500	500	1300	1300	1800	1800	110	280	485	635	760	775	2 in
	34,5	34,5	89,6	89,6	124	124	7,58	19,3	33,4	43,8	52,4	53,4	50mm
	400	400	900	900	1500	1500	75	200	340	445	535	545	3 in
	24,6	24,6	62,1	62,1	103	103	5,17	13,8	23,4	30,7	36,9	37,6	80mm
	325	325	650	650	1100	1100	60	150	270	350	420	430	4 in
	22,4	22,4	44,8	44,8	75,8	75,8	4,14	10,3	18,6	24,1	29,0	29,6	100mm
	240	250	500	500	800	800	45	115	200	260	315	320	6 in
	16,5	17,2	34,5	34,5	55,2	55,2	3,10	7,93	13,8	17,9	21,7	22,1	150mm
	180	200	375	375	600	600	35	85	155	200	240	245	8 in
	12,4	13,8	25,9	25,9	41,4	41,4	2,41	5,86	10,7	13,8	16,5	16,9	200mm
	135	-	300	300	500	500	28	-	125	160	195	200	10 in
	9,31	-	20,7	20,7	34,5	34,5	1,93	-	8,62	11,0	13,4	13,8	250mm
	110	-	250	250	400	400	24	-	105	135	160	165	12 in
	7,58	-	17,2	17,2	27,6	27,6	1,65	-	7,24	9,31	11,0	11,4	300mm
	-	-	-	-	-	-	20	-	90	115	140	140	14 in
	-	-	-	-	-	-	1,38	-	6,21	7,93	9,65	9,65	350mm
	-	-	-	-	-	-	18	-	80	100	120	125	16 in
	-	-	-	-	-	-	1,24	-	5,52	6,90	8,27	8,62	400mm
	-	-	-	-	-	-	16	-	70	90	110	110	18 in
	-	-	-	-	-	-	1,10	-	4,83	6,21	7,58	7,58	450mm
	-	-	-	-	-	-	14	-	62	80	100	100	20 in
	-	-	-	-	-	-	0,965	-	4,27	5,52	6,90	6,90	500mm
	-	-	-	-	-	-	12	-	52	68	80	85	24 in
	-	-	-	-	-	-	0,827	-	3,59	4,69	5,52	5,86	600mm
	-	-	-	-	-	-	10	-	40	50	60	63	30 in
	-	-	-	-	-	-	0,689	-	2,76	3,45	4,14	4,34	750mm

2. When ordering, please specify when a 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.

3. For information concerning conditions or rupture disc sizes not shown, please contact C.D.C. or your nearest C.D.C. representative.

# CONTINENTAL DISC HOLDERS

Continental's Standard Rupture Discs are engineered for use in customized holder configurations as well as various standard designs.

## 30° Insert Type Holders



C.D.C.'s Insert Type Holders are designed to install within the bolt circle of ASME, DIN or JIS class flanges. Available materials include Carbon Steel, 304 or 316 Stainless Steel. Special materials are available upon request. Refer to Table V for recommended pressure maximums for ASME Class flanges. Refer to Table VI for Insert Holder weights and dimensions.

## Full Bolted Style Holders



The Full Bolted Style Holder is available in sizes ranging from 1/2" to 30" (13mm to 750mm) for ASME, DIN or JIS Class flanges. Standard materials include Carbon Steel and 304 or 316 Stainless Steel. Special materials are available upon request. For additional information, consult the factory.

## Screw Type Holders\*



The Screw Type Holder Assembly is designed for use in "mini-systems" with pressures as high as 20,000 psig (1379 barg). The Screw Type Holder is available for 1/2" (13mm) Standard Rupture Discs and is supplied with 1/4" or 1/2" (6mm or 13mm) MPT inlet threads and traditional MPT threaded, free or muffled style outlets. Available holder materials include Carbon Steel and 300 Series Stainless Steel. Refer to Bulletin 2-2206-2 for details.

## Union Type Holders\*



C.D.C.'s Union Type Holders are designed for piping connections using 1/2", 1", 1-1/2", and 2" (13mm, 25mm, 40mm, and 50mm) size piping. Burst pressures up to 6,000 psig (414 barg)

are available in the 1/2" and 1" sizes. The 1-1/2" and 2" sizes feature burst pressures up to 4,000 psig (276 barg). All Union Type Holders are available with threaded or welded inlets in combination with threaded, welded or muffled outlets. Available materials include Carbon Steel and 300 Series Stainless Steel. Special designs are available on request. Refer to C.D.C. Bulletin 2-3308-2 for details.

## Code Compliance

When specified, the Standard Rupture Disc will be manufactured in accordance with ASME Code Sections III or VIII, ISO, DIN, EN, BSI, JIS or other codes, as required. For these applications, C.D.C. will manufacture, temperature test and mark the rupture discs to comply with specific code requirements.

Continental Disc Corporation has been accredited and is authorized by the ASME Code to utilize the UD Code Symbol Stamp for product built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

The Standard Rupture Disc flow performance was certified by The National Board of Boiler and Pressure Vessel Inspectors. These certified flow resistance ( $K_R$ ) and minimum net flow area values are available from Continental Disc Corporation or The National Board of Boiler and Pressure Vessel Inspectors.

Continental Disc maintains an ASME accepted flow testing laboratory to conduct flow testing for rupture discs, relief valves and rupture disc/valve combinations. Refer to C.D.C. Bulletin 1-1106 for details.

**Table V - Recommended Maximum Pressure for Stainless Steel and Carbon Steel ASME Class Flanges**

Service Temperature °F	Maximum Rating (psig)					
	150# ASME	300# ASME	600# ASME	900# ASME	1500# ASME	2500# ASME
-20 to +100	275	720	1440	2160	3600	6000

Note: For values at other temperatures refer to ASME B16.5.

\* 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.

# WEIGHTS AND DIMENSIONS

Table VI - 30° Insert Holder Weights and Dimensions

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

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

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



# ORDERING

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

Rupture Disc: Quantity \_\_\_\_\_ Size \_\_\_\_\_ Description: *Standard Rupture Disc*  
Material: \_\_\_\_\_  
Rated Burst Pressure: \_\_\_\_\_ psig or barg @ \_\_\_\_\_ °F or °C  
Manufacturing range: \_\_\_\_\_ (See Table III)  
Burst Tolerance: \_\_\_\_\_ (See Table III)  
Manufacturing number: \_\_\_\_\_ (if replacing current Continental rupture disc installed)  
Seating Configuration: \_\_\_\_\_ (30° Light Lip, 30° Heavy Lip) See Table II.  
Options: • ASME testing required ( Stamp)  
• Liner, Coating  
• Protective rings  
• Vacuum / Backpressure Support (if required)  
• Gaskets  
• B.D.I. Alarm System

Holder: Bolting Class (ASME, DIN, JIS): \_\_\_\_\_  
Quantity: \_\_\_\_\_ Size: \_\_\_\_\_  
Material: Inlet \_\_\_\_\_ Outlet \_\_\_\_\_  
Configuration: (for Screw Type and Union Type Holders)  
Inlet \_\_\_\_\_ Outlet \_\_\_\_\_  
Accessories: (for Insert Type and Full Bolted Holders)  
• Gauge Tap  
• Nipple and Tee  
• Excess Flow Valve  
• Pressure Gauge  
• Special Facing  
• Teflon Coating  
Other Requirements: \_\_\_\_\_  
\_\_\_\_\_

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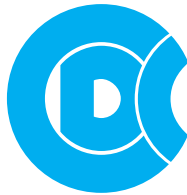
## OTHER SPECIFICATIONS

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



**Continental Disc<sup>®</sup>  
Corporation**

*Performance Under Pressure<sup>®</sup>*



ASME Code Symbol Stamp  
Available When Specified

China Manufacture License  
Available When Specified



Pressure Equipment Directive  
Available When Specified

Continental Disc Corporation has representatives located throughout the world.  
Contact the C.D.C. office nearest you for the authorized representative in your area.

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