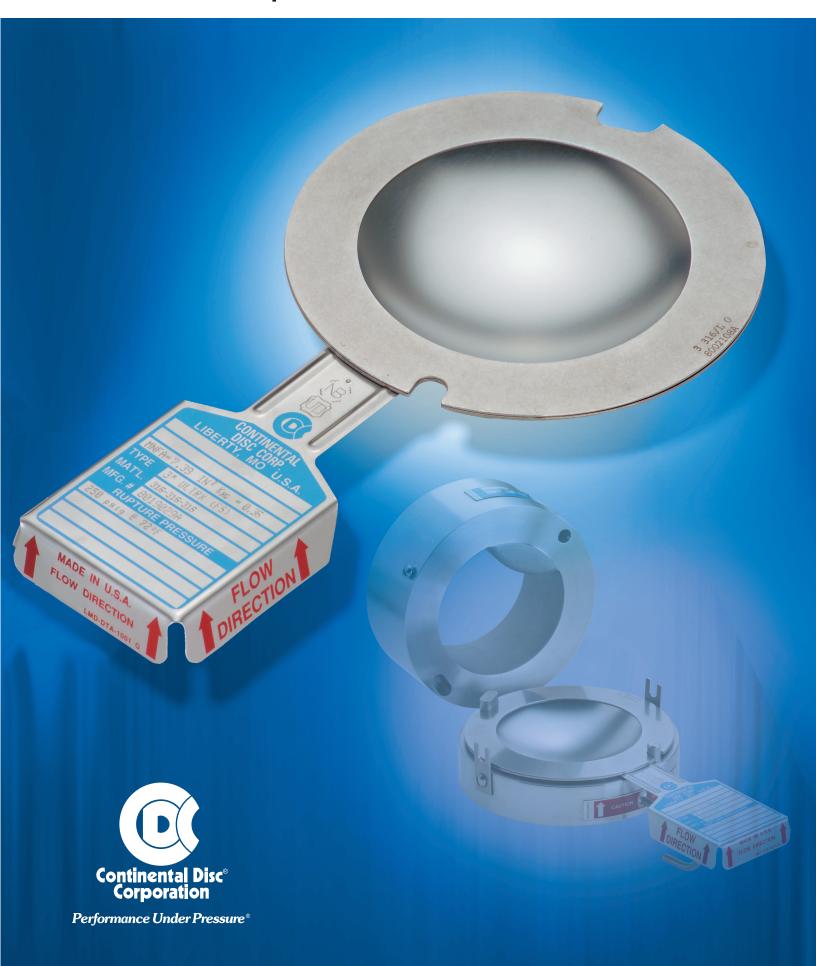
Reverse Acting Rupture Discs and Holders



Rupture Discs for Overpressure Protection

Established in 1965, Continental Disc Corporation manufactures rupture discs to our customers' specifications to help protect vessels, equipment, and systems from damaging overpressure conditions. Continental is a leading manufacturer of rupture disc devices for a variety of process industries, including chemical, pharmaceutical, and petrochemical markets worldwide.

Continental Disc is committed to supplying the services you expect, including:

- Technical assistance, training, and support
- Fast, detailed, easily understood quotations
- Providing the product to your specifications
- Shipping schedules that are unmatched in the industry

Continental Disc offers an emergency service program to meet your needs. Twenty-four hour emergency service is available 365 days a year.

With a worldwide representative network backed by an in-house Tech Team, C.D.C. can assist in determining the best and most economical rupture disc for your specific needs.

Scored, Reverse Acting Rupture Discs

Continental Disc's solid metal, scored, reverse acting rupture discs are differential pressure relief devices that provide an instantaneous fully-open, non-reclosing design for protecting vessels, equipment, and systems from an overpressure condition. The ULTRX®, MINTRX®, STAR X®, and LOTRX® rupture discs offer a wide range of pressures and reliable features, including:

- A ZERO MANUFACTURING RANGE as a standard
- Recommended maximum operating pressure of 90% of the rated (marked) burst pressure. See page 6
- Solid metal design in a variety of available materials for corrosion resistance
- Encapsulating rings, which minimize torque sensitivity and provide a leaktight metal-to-metal seal (handling ring for STAR X Rupture Disc)
- Permanently attached 3-dimensional flow direction tag, alignment pins, and J-Hook for proper rupture disc and holder orientation

The ULTRX, MINTRX, STAR X, and LOTRX rupture discs are all available with the full support and expertise of our Tech Team and Special Projects Group for special applications and new designs.

Seal Load Sensitivity

Continental Disc's encapsulating rings, proven to eliminate seal load (bolt torque) sensitivity, are components of the ULTRX, MINTRX, and LOTRX rupture discs (handling ring for STAR X). Encapsulating rings:

- Hold the rupture disc in the proper location
- Prevent rupture disc slippage when insufficient bolt load is applied to the companion flanges
- Provide a base to accept reasonable over-torquing of the companion flange bolts while protecting the rupture disc from being damaged
- Provide a superior metal-to-metal seal surface



Optimum Flow

Continental Disc's scored, reverse acting rupture discs have *precision* controlled indentations on the surface of the rupture disc dome to initiate reversal when the specified burst pressure is achieved. These rupture discs have a semicircular score to provide a clean, consistent opening pattern. At burst, the score pattern allows the disc to fully open, folding back against the holder, resulting in an optimum flow condition.

Corrosive Protection

Reverse acting rupture discs are superior for use in a corrosive media environment. A wide range of materials and the use of thicker rupture disc materials contribute to the superior corrosive resistance. A Teflon®* liner may be used on the process side of these rupture discs for additional corrosion protection. Consult the factory for available materials.

Safety Ratio

Should your reverse acting rupture disc be damaged during installation or handling, it has been designed to provide pressure relief at or less than the rated (marked) burst pressure for LOTRX and at or less than 1.5 times the rated (marked) burst pressure for ULTRX, MINTRX, and STAR X rupture discs.



REVERSE ACTING RUPTURE DISCS

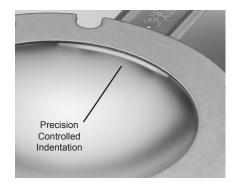
ULTRX Rupture Disc

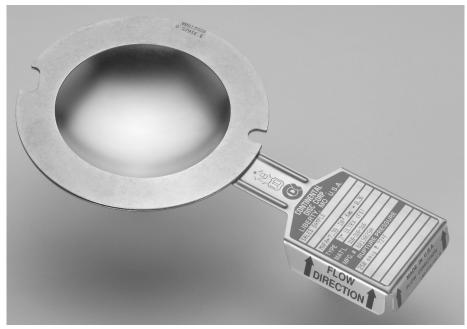
The ULTRX Rupture Disc is a scored, reverse acting rupture disc. It is a differential pressure relief device that provides an instantaneous full-open, non-reclosing design for protecting equipment, vessels and systems from an overpressure condition.

The ULTRX Rupture Disc has Continental Disc's precision controlled indentation to initiate reversal when the specified burst pressure is achieved, and a semicircular score to provide a clean, consistent opening pattern.

Excels in Both Gaseous and Liquid Service!

The ULTRX Rupture Disc is a unique reverse acting rupture disc. It excels in gaseous, partial gas/liquid, or all liquid systems. Full opening occurs in liquid or gaseous systems, including those systems which have an extremely low rate of pressure rise or an exceptionally small volume.





ULTRX Rupture Disc

The ULTRX Rupture Disc eliminates:

- The concern of applying the wrong type of rupture disc in a plant. An ULTRX Rupture Disc can be used in any system, whether gaseous or liquid
- The need for a gas pocket between the rupture disc and liquid media

Wide Range of Applications

The ULTRX Rupture Disc is an ideal choice for primary and/or secondary system relief protection and provides an effective means of fugitive emission control when used to isolate a safety relief valve. Additional system protection

applications include installation in transfer piping, chemical reactors, pressure vessels, storage vessels, and heat exchangers.

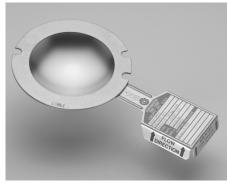
The ULTRX Rupture Disc is available in standard nominal sizes ranging from 1" through 12" (25 - 300 mm). Larger sizes are available. Consult the factory or your Continental Disc Corporation representative for more information.

MINTRX Rupture Disc

The MINTRX Rupture Disc has many of the same benefits as the ULTRX Rupture Disc, but is specifically designed to operate at lower burst pressures. When the precision controlled indentation on the rupture disc surface initiates the reversal action, full opening will occur.

The MINTRX Rupture Disc excels in low pressure gaseous or partial gas/liquid systems. Consult the factory before using the MINTRX Rupture Disc in full-liquid applications.

The MINTRX Rupture Disc is available in nominal sizes ranging from 1" through 8" (25 - 200 mm). Larger sizes are available. Consult the factory or your Continental Disc Corporation representative for more information.



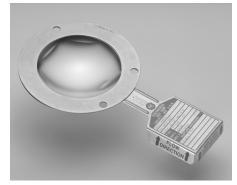
MINTRX Rupture Disc

STAR X Rupture Disc

The STAR X Rupture Disc is designed to provide protection at even lower burst pressures than the ULTRX or MINTRX rupture discs. It has Continental Disc's nonsymmetrical failure initiating indents, to precisely control disc buckling at a predetermined pressure. The STAR X Rupture Disc incorporates a handling ring to reduce torque sensitivity. It is specifically designed for low pressure applications that require operating ratio of up to 90% of the disc's rated (marked) burst pressure.

The STAR X Rupture Disc excels in low pressure gaseous or partial gas/liquid systems. Consult the factory before using the STAR X Rupture Disc in full-liquid applications.

The STAR X Rupture Disc is available in nominal sizes ranging from 1" through 6" (25 - 150 mm). Larger sizes are available. Consult the factory or your Continental Disc Corporation representative for more information.



STAR X Rupture Disc





LOTRX Rupture Disc

LOTRX Rupture Disc

The LOTRX Rupture Disc represents a breakthrough in rupture disc design. The LOTRX Rupture Disc provides all the benefits of Continental's scored, reverse acting discs, with additional features that make it ideal for extremely low pressure applications. These enhancements include:

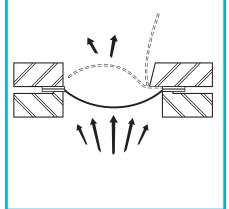
 C.D.C.'s Failure Initiating Indent, located at or near the apex of the rupture disc dome, lowers the pressure at which reversal occurs (compared to other solid metal, reverse acting rupture discs of similar size, material, or thickness)

- C.D.C.'s Notched Outlet Ring facilitates opening of the rupture disc along the precision semicircular score at extremely low reversal pressures
- Safety ratio of 1-to-1. Should your LOTRX Rupture Disc be damaged during installation or handling, it has been designed to provide pressure relief at or below the burst pressure rating
- C.D.C.'s Backpressure Support Ring permits operation under full vacuum conditions for burst pressure ratings 5 psig (0,345 barg) and above. For lower burst pressure settings, full vacuum protection may be available based on size and material; consult the factory

The LOTRX Rupture Disc is available in nominal sizes ranging from 1" through 8" (25 - 200 mm) and is intended for low pressure gaseous or partial gas/liquid systems. Larger sizes are available. Consult the factory or your Continental Disc Corporation representative for more information.

Proven features of Continental Disc's Scored, Reverse Acting Rupture Discs:

- Operation to 90% of burst rating (see page 6)
- Zero manufacturing range as standard
- Safety ratio of at or less than 1.5 times the rated burst pressure (1.0 for LOTRX)
- Designed to withstand full vacuum for burst pressure ratings above 5 psig (0,345 barg)
- Non-fragmenting design
- Encapsulating rings
 (handling ring for STAR
 X), which minimize torque
 sensitivity and provide a
 leak-tight metal-to-metal
 seal
- Excellent for safety relief valve isolation
- Conformance to national or international codes including ASME Section III or VIII, ISO, DIN, EN, BSI, JIS, CE, ATEX, or other codes
- Permanently attached
 3-dimensional flow direction
 tag to provide immediate
 visual verification of proper
 installation



SPECIFYING A REVERSE ACTING RUPTURE DISC

Manufacturing Range

All reverse acting rupture discs are offered with a zero manufacturing range as a standard. This means that the rupture disc will be manufactured and marked with precisely the burst pressure that was requested by the customer, and that the rupture disc can be pressurized up to 90% of the rated (marked) burst pressure under normal operating conditions. for ratings of 40 psig (2,76 barg) and above. In this case, a standard burst tolerance of +/-5% applies to the rated (marked) burst pressure. For pressures below 40 psig (2,76 barg), the rupture disc can be pressurized to 90% of the rated (marked) burst pressure reduced by the burst tolerance. This is in accordance with the ASME Code.

European standards (ISO 4126.2) allow for different rupture disc rating methods, including:

- Specifying a burst pressure with a performance tolerance range, which includes the manufacturing range and the burst tolerance together
- Specifying an acceptable min-max burst pressure range

For the table at right, a manufacturing range is defined as the allowable pressure range within which the rupture disc will be rated (marked). based on the customer's specified burst pressure. After the rupture disc has been manufactured, tested, and marked, the burst tolerance applies to the rated (marked) burst pressure. The maximum operating pressure is the highest differential pressure the disc should be exposed to under normal operating conditions. Pressurizing a rupture disc above the maximum operating pressure may reduce the expected operating life of the rupture disc.

Recommended Maximum Temperatures

In general, the burst pressure of a rupture disc will decrease as operating temperatures increase. Table II states the maximum temperatures for commonly used rupture disc materials and linings.

Table I – Rupture Disc Rating Methods
(Manufacturing Range, Performance Tolerance, Min-Max)

(111		North American (AS		,		
	Mai	nufacturing Ranges Availa	<u> </u>		Maximum	
Specified Burst Pressure	Standard	Increased	Max	Burst Tolerance	Operating Pressure	
50 psig and above 3,44 barg and above	zero	-5%	-10%	± 5 %	90% of rated	
40 up to 50 psig 2,76 up to 3,44 barg	zero	-2.5 psig -0,173 barg	-5 psig -0,345 barg	± 5 %	90% of rated	
9 up to 40 psig 0,806 up to 2,76 barg	zero	-2.5 psig -0,173 barg (See below for LOTRX)	-5 psig -0,345 barg	± 2 psig ± 0,138 barg	90% of (rated - 2 psig or 0,138 barg)	
LOTRX ONLY						
20 psig and above 1,38 barg and above	zero	-5%	-10%	± 2 psig ± 0,138 barg	90% of (rated - 2 psig)	
6 psig up to 20 psig 0,414 up to 1,38 barg	zero	-5%	-10%	± 10%	90% of (rated - 10%)	
5 psig up to 6 psig 0,345 up to 0,414 barg	zero	-0.3 psig -0,021 barg	-0.6 psig -0,042 barg	± 10%	90% of (rated - 10%)	
less than 5 psig less than 0,345 barg	zero	-0.3 psig -0,021 barg	-0.6 psig -0,042 barg	± 15%	90% of (rated - 15%)	
	Euro	opean "Performance	Tolerance" Method			
	Perf	ormance Tolerances Avai	lable		Maximum Operating Pressure	
Specified Burst Pressure	Standard	Increased	Max	Burst Tolerance		
50 psig and above 3,44 barg and above	± 5%	-10% / +5%	-15% / +5%	Included in	90% of low end	
40 up to 50 psig 2,76 up to 3,44 barg	± 5%	(-2.5 psig-5%) / +5% (-0,173 barg-5%) / +5%	(-5 psig-5%) / +5% (-0,345 barg-5%) / +5%	Performance	of Performance	
9 up to 40 psig 0,806 up to 2,76 barg	± 2 psig ± 0,138 barg	-4.5 / +2 psig -0,311 / +0,138 barg (See below for LOTRX)	-7 / +2 psig -0,483 / +0,138 barg	Tolerance	Tolerance	
LOTRX ONLY						
20 psig and above 1,38 barg and above	± 2 psig ± 0,138 barg	(-2 psig-5%) / +2 psig (-0,138 barg-5%)/+0,138 barg	(-2 psig-10%) / +2 psig (-0,138 barg-10%)/+0,138 barg	Included in	90% of low end	
6 psig up to 20 psig 0,414 up to 1,38 barg	± 10%	-15% / +10%	-20% / +10%	Performance	of Performance	
5 psig up to 6 psig 0,345 up to 0,414 barg	± 10%	(-0.3 psig-10%) / +10% (-0,021 barg-10%) / +10%	(-0.6 psig-10%) / +10% (-0,042 barg-10%) / +10%	Tolerance	Tolerance	
less than 5 psig less than 0,345 barg	± 15%	(-0.3 psig-15%) / +15% (-0,021 barg-15%) / +15%	(-0.6 psig-15%) / +15% (-0,042 barg-15%) / +15%			
		Min-Max Me	ethod			
Specified	Av	vailable Max Burst Pressu	ire		Maximum	
Minimum Burst Pressure	Standard	Increased	Max	Burst Tolerance	Operating Pressure	
50 psig and above 3,44 barg and above	Min + 10%	Min + 15%	Min + 20%			
40 up to 50 psig 2,76 up to 3,44 barg	Min + 10%	Min + 2.5 psig + 10% Min + 0,173 barg + 10%	Min + 5 psig + 10% Min + 0,345 barg + 10%	Included in	90% of	
9 up to 40 psig 0,806 up to 2,76 barg	Min + 4 psig Min + 0,276 barg	Min + 6.5 psig Min + 0,449 barg (See below for LOTRX)	Min + 9 psig Min + 0,621 barg	Min-Max	Minimum	
LOTRX ONLY						
20 psig and above 1,38 barg and above	Min + 4 psig Min + 0,276 barg	Min + 4 psig + 5% Min + 0,276 barg + 5%	Min + 4 psig + 10% Min + 0,276 barg + 10%			
6 up to 20 psig 0,414 up to 1,38 barg	Min + 20%	Min + 25%	Min + 30%	Included in	90% of	
5 up to 6 psig 0,345 up to 0,414 barg	Min + 20%	Min + 0.3 psig + 20% Min + 0,021 barg + 20%	Min + 0.6 psig + 20% Min + 0,042 barg + 20%	Min-Max	Minimum	
less than 5 psig less than 0,345 barg	Min + 30%	Min + 0.3 psig + 30% Min + 0,021 barg + 30%	Min + 0.6 psig + 30% Min + 0,042 barg + 30%			

Table II - Maximum Recommended Temperature Limits

Disc Material	Fahrenheit	Celsius
Nickel / Monel®*	800°	427°
316 Stainless Steel / Hastelloy®** C-276	900°	482°
Inconel®*	1000°	538°
Tantalum	500°	260°
Aluminum	260°	127°
Teflon liner	500°	260°

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

^{**} Hastelloy is a registered trademark of Haynes International.

Table III – Minimum / Maximum Available Burst Pressures at 72°F (22°C)

White bars indicate psig. Gray bars indicate barg.

			/Monel	316S	S/Inconel	Hastelloy C (see note)		
Model	Size	Min	Max	Min	Max	Min	Max	
	1"	100	1000	125	1000	140	1000	
	25 mm	6,90	68,9	8,62	68,9	9,66	68,9	
	1.5"	85	900	100	1000	110	1000	
	40 mm	5,87	62,0	6,90	68,9	7,59	68,9	
	2"	65	850	85	900	95	1000	
	50 mm	4,49	58,6	5,87	62,0	6,56	68,9	
	3"	50	750	70	900	80	1000	
	80 mm	3,45	51,7	4,83	62,0	5,52	68,9	
2	4"	50	650	60	800	70	900	
ULTRX	100 mm	3,45	44,8	4,14	55,1	4,83	62,0	
5	6"	40	400	50	450	60	500	
	150 mm	2,76	27,5	3,45	31,0	4,14	34,4	
	8"	40	250	50	300	60	350	
	200 mm	2,76	17,2	3,45	20,6	4,14	24,1	
	10"	15	225	20	275	30	325	
	250 mm	1,04	15,5	1,38	18,9	2,07	22,4	
	12"	15	190	20	225	30	270	
	300 mm	1,04	13,1	1,38	15,5	2,07	18,6	
	1"	50	99	65	124	75	139	
	25 mm	3,45	6,82	4,49	8,54	5,18	9,58	
	1.5"	45	84	50	99	60	109	
	40 mm	3,11	5,79	3,45	6,82	4,14	7,51	
	2"	35	64	45	84	50	94	
MINTRX	50 mm	2,42	4,41	3,11	5,79	3,45	6,48	
<u> </u>	3"	25	49	35	69	45	79	
Z	80 mm	1,73	3,37	2,42	4,75	3,11	5,44	
Σ	4"	25	49	30	59	40	69	
	100 mm	1,73	3,37	2,07	4,06	2,76	4,75	
	6"	20	39	25	49	35	59	
	150 mm	1,38	2,68	1,73	3,37	2,42	4,06	
	8"	20	39	25	49	35	59	
	200 mm	1,38	2,68	1,73	3,37	2,42	4,06	
	1"	20	125	20	125	40	140	
	25 mm	1,38	8,61	1,38	8,61	2,76	9,65	
	1.5"	16	100	16	100	30	110	
	40 mm	1,11	6,89	1,11	6,89	2,07	7,58	
	2"	15	89	15	89	25	94	
STAR X	50 mm	1,04	6,13	1,04	6,13	1,73	6,48	
A I	3"	15	69	15	69	22	79	
TC	80 mm	1,04	4,75	1,04	4,75	1,52	5,44	
•	4"	1,04	4,75 59	1,04	4,75 59			
	4 100 mm					22 1,52	69	
		1,04	4,06	1,04	4,06		4,75	
	6"	13	50	13	50	20	60	
	150 mm	0,897	3,44	0,897	3,44	1,38	4,13	
	1"	2	19.9	2	19.9	4	39.9	
	25 mm	0,138	1,37	0,138	1,37	0,276	2,75	
	1.5"	2	15.9	2	15.9	4	29.9	
	40 mm	0,138	1,09	0,138	1,09	0,276	2,06	
	2"	2	14.9	2	14.9	4	24.9	
×	50 mm	0,138	1,02	0,138	1,02	0,276	1,71	
LOTRX	3"	3	14.9	3	14.9	5	21.9	
0	80 mm	0,207	1,02	0,207	1,02	0,345	1,51	
_	4"	1.5	14.9	1.5	14.9	3	21.9	
	100 mm	0,104	1,02	0,104	1,02	0,207	1,51	
	6"	2.5	12.9	2.5	12.9	7	19.9	
	150 mm	0,173	0,889	0,173	0,889	0,483	1,37	
	8"	3.5	24.9	3.5	24.9	10.5	34.9	
	200 mm	0,242	1,71	0,242	1,71	0,724	2,40	

Notes:

Higher or lower pressures and sizes may be available. Consult your Continental Disc representative or the factory.

Stainless steel encapsulating rings are standard (handling ring for STAR X). For optional ring materials, consult your Continental Disc representative or the factory.

Teflon lining or coating is available on some models. Consult your Continental Disc representative or the factory.

For additional corrosion protection or pressure capability, other materials like tantalum or aluminum are available. Consult your Continental Disc representative or the factory.

REVERSE ACTING RUPTURE DISC HOLDERS

Rupture Disc Holders

In order to provide a leak-tight seal in all conditions and to support and orient the rupture disc properly during operation, Continental Disc Corporation offers a holder assembly specifically designed for each of our scored, reverse acting rupture disc designs.

These solid metal holders are insert type, meaning they were designed to fit directly between standard ANSI, DIN, or JIS companion flanges, as well as other flat or raised-face bolted flange arrangements. A holder assembly consists of two main parts: a holder inlet with attached J-Hook, and a holder outlet. Both parts are held together during installation by two or more preassembly clips.

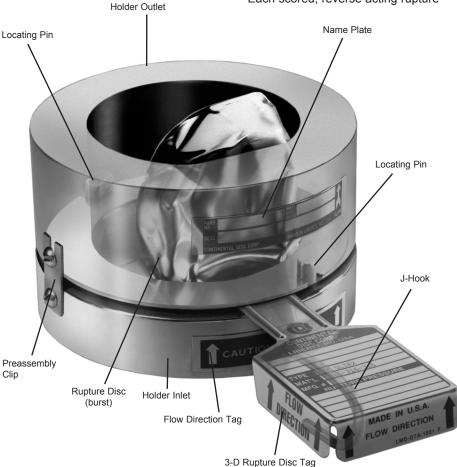
The holder assembly allows optimum operation of the companion rupture disc, and has been designed for simplicity, superior seating capability, and safety:

· Alignment of the rupture disc in the

holder is assured through the use of non-symmetrical locating pins outside the rupture disc sealing area.

- Stainless steel tags spot-welded to the outside of the holder inlet and outlet indicate the proper flow direction, to match that shown on the 3-D flow tag attached to the rupture disc. Plus, a J-Hook is welded to the holder inlet as a standard, to mate with a customer-drilled hole in the side of the companion flange. This combination virtually assures that the rupture disc assembly cannot be inserted in the system upside down.
- A tapered, raised seat on the inlet holder provides uniform load on the rupture disc, insuring a metal-tometal leak-tight seal between the rupture disc and holder.
- An arcuate projection, located inside the holder outlet, helps eliminate fragmentation and provides an unrestricted flow after reversal occurs.

Each scored, reverse acting rupture



disc design — ULTRX, MINTRX, STAR X, or LOTRX — has specific holder design requirements. The customer must install the rupture disc properly in the appropriate holder assembly for optimum operation. The permanently attached stainless steel tags and unique locating pins make proper installation safe and easy.

Holder Specifications

Weights and dimensions for these holders in ANSI, DIN, and JIS configurations are shown in Table IV. Consult the factory for holders to fit other national or international standards.

Materials: Holder assemblies are machined from standard materials including carbon steel, 316SS, Monel, and Hastelloy C. Other materials are available on request.

Options: Holder assemblies are available with options including 1/4", 3/8", or 1/2" gauge tap, nipple and tee. excess flow valve, pressure gauge, special facings, or Teflon coating. A stainless steel customer identification tag can be permanently attached to the holder at no extra charge. Holder assemblies can also be manufactured in a pretorque design, at customer request. This design allows the rupture disc and holder to be "bolted up" prior to insertion in the system piping. For additional corrosion protection, tantalum lining is available on the inlet portion of the holder. Contact the factory for more information.

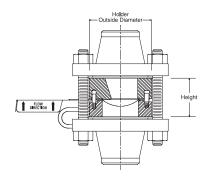


Table IV — Weights and Dimensions for Scored, Reverse Acting Holder Assemblies

Hole	der Siz	es Avai	lable		AN.	ISI	D	IN	J	IS	ULTRX	MINTRX	STAR X	LOTRX	
				Nominal		Outside		Outside		Outside	Height	Height	Height	Height	Weight
&	ITR	R	윤	Size	Class	Diameter	Class	Diameter	Class	Diameter					
ULTRX	MINTRX	STAR X	LOTRX			(inch/mm)		(mm)		(mm)	(inch/mm)	(inch/mm)	(inch/mm)	(inch/mm)	(lb/kg)
					150	2.50 / 63,5					1.82 / 46	1.75 / 44	1.80 / 46	1.84 / 47	2.0 / 0,9
	•		•	1 in.	300 / 600	2.75 / 69,9	10 / 40	69,9	10 / 20	69,9	1.82 / 46	1.75 / 44	1.80 / 46	1.84 / 47	2.5 / 1,1
•	•	*	•	25 mm					30 / 40	76,0	1.82 / 46	1.75 / 44	1.80 / 46	1.84 / 47	3.0 / 1,4
							64 / 160	82,0			2.42 / 61	2.35 / 60			3.6 / 1,6
					150	3.25 / 82,6					2.03 / 52	1.96 / 50	2.04 / 52	2.08 / 30	4.5 / 2,0
					300 / 600	3.63 / 92,2	10 / 40	92,2			2.03 / 52	1.96 / 50	2.04 / 52	2.08 / 30	4.7 / 2,1
	•		•	1 1/2 in.					10 / 20	86,0	2.03 / 52	1.96 / 50	2.04 / 52	2.08 / 30	4.9 / 2,2
*	•	*	•	40 mm					30 / 40	97,0	2.03 / 52	1.96 / 50	2.04 / 52	2.08 / 30	5.0 / 2,3
					900 / 1500	3.75 / 95,3					2.57 / 65	2.50 / 64			6.4 / 2,9
							64 / 160	102,0			2.57 / 65	2.50 / 64			7.5 / 3,4
					150	4.00 / 101,6			10	101,6	2.40 / 61	2.33 / 59	2.36 / 60	2.40 / 61	5.9 / 2.8
									16 / 20	101,6	2.40 / 61		2.36 / 60	2.40 / 61	5.9 / 2,8
				2 in.			10 / 40	108,0			2.40 / 61	2.33 / 59	2.36 / 60	2.40 / 61	6.5 / 2,9
				50 mm	300 / 600	4.25 / 108,0					2.40 / 61	2.33 / 59		2.40 / 61	6.7 / 3,0
•	•	🔻	•						30 / 40	111,0	2.40 / 61	2.33 / 59		2.40 / 61	7.2 / 3,3
							64	111,0			2.40 / 61	2.33 / 59		2.40 / 61	7.6 / 3,4
					900 / 1500	5.50 / 139,7					3.06 / 78				17 / 7,7
					150	5.25 / 133,4			10	132,0	3.24 / 82	3.17 / 81	3.17 / 81	3.21 / 81	15 / 6,9
				3 in.					16 / 20	137,0	3.24 / 82	3.17 / 81	3.17 / 81	3.21 / 81	16 / 7,3
				80 mm			10	142,0			3.24 / 82		3.17 / 81	3.21 / 81	19 / 8,8
	•		•				16 / 40	142,0			3.24 / 82	3.17 / 81			19 / 8,8
					300 / 600	5.75 / 146,1	64	146,1	30 / 40	146,1	3.24 / 82	3.17 / 81	3.17 / 81	3.21 / 81	21 / 9,5
									10	156,0	4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	17 / 7,7
							10 / 16	162,0	16 / 20	162,0	4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	20 / 9,1
				4 in.			25 / 40	168,0	30	168,0	4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	23 / 10,0
				100 mm	150	6.75 / 171,5					4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	24 / 11,0
	•		•				64	173,0			4.19 / 106	4.12 / 105			25 / 11,0
					300	7.00 / 177,8					4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	27 / 12,0
									40	180,0	4.07 / 103	4.00 / 102	3.93 / 100	3.97 / 101	27 / 12,0
					150	8.63 / 219,2	10 / 16	217,0	10	217,0	5.81 / 148	5.74 / 146	5.60 / 142	5.64 / 143	55 / 25,0
				6 in.			25 / 40	223,0			5.81 / 148	5.74 / 146	5.60 / 142	5.64 / 143	62 / 28,0
	•		•	150 mm					16 / 20	235,0	5.81 / 148	5.74 / 146	5.60 / 142	5.64 / 143	69 / 31,0
•	•	🔻	•		300	9.75 / 247,7			30	247,7	5.81 / 148	5.74 / 146	5.60 / 142	5.64 / 143	85 / 39,0
									40	262,0	5.81 / 148	5.74 / 146	5.60 / 142	5.64 / 143	99 / 45,0
									10	267,0	7.25 / 186	7.18 / 182		7.26 / 184	83 / 38,0
					150	10.88 / 276,4	10	272,0			7.25 / 186	7.18 / 182		7.26 / 184	95 / 43,0
				8 in.			16	272,0			7.25 / 186	7.18 / 182		7.26 / 184	95 / 43,0
	•			200 mm					16 / 20	280,0	7.25 / 186	7.18 / 182		7.26 / 184	100 / 45,0
▼	•		•				25	283,0			7.25 / 186	7.18 / 182		7.26 / 184	104 / 47,0
							40	290,0			7.25 / 186	7.18 / 182		7.26 / 184	108 / 49,0
					300	12.00 / 304,8					7.25 / 186	7.18 / 182		7.26 / 184	136 / 62,0
					150	13.25 / 336,6					6.12 / 155				89 / 40,0
							25	340,0			6.12 / 155				96 / 44,0
				10 in.					16 / 20	353,0	6.12 / 155				112 / 51,0
				250 mm			40	352,0			6.12 / 155				113 / 51,0
🔻									30	357,0	6.12 / 155				120 / 54,0
					300	14.13 / 358,89					6.12 / 155				123 / 56,0
									40	377,0	6.12 / 155				150 / 68,0
							25	400,0			7.12 / 181				150 / 68,0
								.,,	16 / 20	403,0	7.12 / 181				154 / 70,0
				12 in.	150	16.00 / 406,4					7.12 / 181				160.3 / 73,0
-				300 mm		, .	40	417,0	30	417,0	7.12 / 181				183 / 83,0
					300	16.50 / 419,1	-	.,.		.,.	7.12 / 181				187 / 85,0
									40	431,0	7.12 / 181				211 / 96,0
		TDV D				ool niece hetw									

Note: The ULTRX Rupture Disc Holder may require a spool piece between the holder outlet and the inlet of a pressure relief valve for 10" and 12" (250 and 300 mm) size. Recommended spool piece height is 5" for a 10" holder, and 6" for a 12" holder (125 mm for 250 mm holder, 150 mm for 300 mm holder). Consult the factory for more information.

Code Compliance

When specified, ULTRX, MINTRX, STAR X, and LOTRX Rupture Discs 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 (Fig. Code Symbol Stamp for product built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

The ULTRX, MINTRX, STAR X, and LOTRX flow performance was certified by The National Board of Boiler and Pressure Vessel Inspectors. The certified flow resistance factors (K_R) and minimum net flow area values are available from Continental Disc



Corporation or The National Board of Boiler and Pressure Vessel Inspectors.

 ⟨ € marked reverse acting rupture discs in accordance with Pressure Equipment Directive 97/23 EC are available when specified.

Continental Disc maintains an

in-house 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 no. 1-1106 for details).

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 for details).

The B.D.I. Alarm System should not be used with devices with minimum pressure ratings below those shown in Table V. Consult the factory for these applications.

Table V – Minimum Pressure for B.D.I.

Rupture	Disc Size	Pressure			
ln.	mm.	psig	barg		
1	25	15	1,03		
1-1/2	40	10	0,69		
2	50	4	0,28		
3	80	2.5	0,17		
4	100	2.5	0,17		
6	150	1	0,07		

To assure selection of the correct rupture disc and holder for your application, the following information should be supplied when placing an order. To discuss more specific information regarding the applicable rupture disc for your installation, a B.D.I. Alarm System, or accessory, call, write, or fax the nearest Continental Disc direct sales office listed on the back.

Specifications:

- 1. Quantity
- 2. Size
- 3. Type
- 4. Materials
- 5. Options . . . linings
- 6. Actual vacuum pressure or back
- 7. Specified pressure/specified temperature
- 8. Manufacturing range, A ance ago

Quality Assurance/ **Documentation:**

- 1. Codes: ASME, DIN, EN, JIS, BSI, or others
- 2. Special cleaning
- 3. Special packaging
- 4. Special tagging
- 5. Temperature testing
- Material test reports
- 7. Other

Operating Specifications:

- 1. Maximum allowable working pressure (vessel MAWP)
- Operating pressure
- 3. Operating temperature
- 4. Vacuum/backpressure
- 5. Cycle conditions
- 6. Flow rate required
- 7. Media
- 8. Molecular weight/specific gravity
- 9. For use under a relief valve
- 10 Previous manufacturing number

see page o					(if kno	vn)
Please supply th	e following when ordering	g::				
RUPTURE DISC	: Quantity:	_ Size:				
Description: UL	TRX, MINTRX, STAR X,	or LOTRX R	Supture Disc			
Materia	l:				_	
Inlet an	d Outlet Rings: 316 SS (1)	Manufactu	uring Range: Zero) ⁽²⁾		
Rated E	Burst Pressure:	psig or	barg at	°F or °	С	
		min to	max (select) p	osig / barg at	°F or _	°C
Burst T	olerance: or	Performance	Tolerance:			
Manufa	cturing Number:		for previously sup	pplied rupture dise	CS.	
Options -	ASME testing required:	-				-
	Teflon Liner: Inlet					-
	Protective Cover: Outle	t				-
	B.D.I. Alarm System					-
	Other requirements:					-
HOLDER:	Quantity:	_ Size:				
Description: UL	TRX, MINTRX, STAR X,	or LOTRX H	lolder with J-Hoo	k, to mate with (3)		_ class flanges
Material: Inlet		Outlet			_	
Manufacturing N	umber:		for previou	sly supplied holde	ers.	
Options -	Accessories:(4)					
	Other requirements:					
Notes:	d. Specify other material		s of flange that holder i			
when required.		, ,	pinnle and too excess			

- 2. Zero (0) manufacturing range is standard. See page 6.
- pressure gauge, special facing, tantalum lining,







China Manufacture License Available When Specified







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