

# Preparation and Installation of the Standard Type Rupture Disc (Light Lip and Heavy Lip) in 30° Seat 7I Insert, Full-Bolted, and Union Type Holders

#### **WARNING**

USER SHOULD READ AND THOROUGHLY UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING RUPTURE DISC. THESE INSTRUCTIONS DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY FACTORS ASSOCIATED WITH THE RUPTURE DISC'S USE IN SERVICE. IT IS THE RESPONSIBILITY OF THE USER TO ESTABLISH APPROPRIATE SAFETY, HEALTH, AND TRAINING MEASURES FOR THEIR PERSONNEL INSTALLING, SERVICING, OR WORKING IN AN AREA WHERE RUPTURE DISC ASSEMBLIES ARE IN USE. SERVICE AND/OR MAINTENANCE ON OR AROUND THE RUPTURE DISC DEVICE MUST NOT BE PERFORMED WHILE THE DEVICE IS SUBJECTED TO OPERATING PRESSURES AND/OR TEMPERATURES.

IT IS THE USER'S SOLE RESPONSIBILITY FOR DESIGN AND PLACEMENT OF RUPTURE DISCS WITHIN THEIR FACILITY AND UPON THE EQUIPMENT UPON WHICH THE RUPTURE DISC OF USER'S SELECTION IS TO BE LOCATED. IT IS USER'S SOLE RESPONSIBILITY FOR THE DESIGN OF ADEQUATE VENTING AND INSTALLATION OF ADEQUATE VENT PIPING OR DIRECTIONAL FLOW AFTER RUPTURE OCCURS WITH THE RUPTURE DISC AS INTENDED. WHEN SIZE IS SPECIFIED, CONTINENTAL DISC CORPORATION ASSUMES THAT ADEQUATE PROVISIONS HAVE BEEN MADE BY PURCHASER FOR PROPER VENTING OF A SYSTEM TO RELIEVE THE SPECIFIC PRESSURE. LOCATE RUPTURE DISC WHERE PEOPLE OR PROPERTY WILL NOT BE EXPOSED TO THE SYSTEM DISCHARGE IN CASE OF RUPTURE. VENT TOXIC OR FLAMMABLE FUMES OR LIQUIDS TO A SAFE LOCATION TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE.

IT IS THE USER'S SOLE RESPONSIBILITY TO SPECIFY THE BURST PRESSURE RATING OF A RUPTURE DISC AT A COINCIDENT TEMPERATURE AT WHICH THE RUPTURE DISC IS TO BE USED. A RUPTURE DISC IS A TEMPERATURE SENSITIVE DEVICE. THE BURST PRESSURE OF THE RUPTURE DISC IS DIRECTLY AFFECTED BY ITS EXPOSURE TO THE COINCIDENT TEMPERATURE. GENERALLY, AS THE TEMPERATURE AT THE RUPTURE DISC INCREASES, THE BURST PRESSURE DECREASES; INVERSELY, AS THE TEMPERATURE AT THE RUPTURE DISC DECREASES, THE BURST PRESSURE MAY INCREASE. FAILURE TO PROPERLY UTILIZE A RUPTURE DISC AT THE SPECIFIED COINCIDENT TEMPERATURE COULD CAUSE PREMATURE FAILURE OR OVERPRESSURIZATION OF A SYSTEM.

THE INSTANTANEOUS RELEASE OF PRESSURE FROM THE RUPTURE DISC CAN CREATE VIOLENT NOISES DUE TO THE DISCHARGE AT SONIC VELOCITY. IT IS THE USER'S SOLE RESPONSIBILITY TO PROTECT AGAINST HEARING DAMAGE TO ANY BYSTANDERS.

RUPTURE DISCS AND TAGS ARE MADE OF METAL FOILS OF VARYING THICKNESS. THE METAL EDGES MAY BE SHARP. PERSONNEL INSTALLING OR EXAMINING THE RUPTURE DISCS SHOULD PROTECT AGAINST CUTS OR INJURY WHEN HANDLING THE RUPTURE DISC. DO NOT LIFT A RUPTURE DISC BY ITS ATTACHED TAG.

PARTICLES MAY BE DISCHARGED WHEN THE RUPTURE DISC RUPTURES. THESE PARTICLES MAY BE PART OF THE RUPTURE DISC ITSELF, OR OTHER ENVIRONMENTAL MATTER IN THE SYSTEM. IT IS THE USER'S SOLE RESPONSIBILITY TO ASSURE THAT THESE PARTICLES ARE DIRECTED TO A SAFE AREA TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE.

THERE IS NO GUARANTEE OF RUPTURE DISC LIFE. SUCH LIFE SPAN IS AFFECTED BY CORROSION, CREEP AND FATIGUE, AND PHYSICAL DAMAGE. THESE CONDITIONS WILL DERATE THE RUPTURE DISC TO A LOWER SET PRESSURE. THE CUSTOMER AND/OR USER SHOULD BE PREPARED TO HANDLE PREMATURE FAILURE OF THE RUPTURE DISC. THE MEDIA OR OTHER ENVIRONMENTAL CONDITIONS SHOULD NOT ALLOW ANY BUILDUP OR SOLIDIFICATION OF MEDIA TO OCCUR ON A RUPTURE DISC. THIS MAY INCREASE THE PRESSURE SETTING OF THE RUPTURE DISC.

CUSTOMER AND/OR ITS INSTALLER SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF SELLER'S HOLDERS AND RUPTURE DISCS INTO A SYSTEM. CUSTOMER AND/OR ITS INSTALLER SHALL BE SOLELY RESPONSIBLE FOR IMPROPER INSTALLATION AND PHYSICAL DAMAGE RESULTING THEREFROM, INCLUDING BUT NOT LIMITED TO, DAMAGE RESULTING FROM LEAKAGE, IMPROPER TORQUING OR SEATING OF A RUPTURE DISC OR FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS WHERE PROVIDED.

RUPTURE DISCS ARE PRECISION SAFETY DEVICES AND MUST BE INSTALLED PROPERLY. RUPTURE DISCS MUST BE INSTALLED BY TRAINED, KNOWLEDGEABLE INSTALLERS AND ONLY WITHIN ENVIRONMENTS SUITABLE AND APPROPRIATE FOR A RUPTURE DISC. CARE MUST BE USED IN A FACILITY'S DESIGN TO PROTECT BOTH THE RUPTURE DISC FROM INADVERTENT DAMAGE WHICH COULD CAUSE ITS PREMATURE RELEASE AND TO PROTECT INDIVIDUALS EXPOSED TO HAZARDS CREATED BY SUCH SUDDEN RELEASE.

PROPER INSTALLATION OF A RUPTURE DISC IS CRITICAL TO PERFORMANCE AND TO SAFETY. FAILURE TO PROVIDE PROPER SEATING OF A RUPTURE DISC MAY AFFECT RUPTURE DISC PERFORMANCE, BURST PRESSURE ACCURACY AND MAY RESULT IN ITS PREMATURE FAILURE.

# I. Safety Precautions Before Installation

- The STANDARD Type rupture disc is a precision instrument and must be handled with extreme care. Rupture discs should be installed only by qualified personnel familiar with rupture discs and proper piping practices.
- Do not install rupture disc if there is any damage in the dome area. A damaged rupture disc is any rupture disc with visible nicks or dents in the dome.
- Continental Disc Corporation does not recommend reinstalling a rupture disc that has been removed from the holder as reinstallation may adversely affect the joint sealing capabilities and/or performance of the rupture disc.
- See rupture disc tag to verify set pressure, operating temperature, and all other operating parameters.

# II. 7I Insert Type 30° Seat Holder

# A. Preparation of Holders for Installation

#### **New Installation**

Clean all foreign material from the rupture disc sealing area of both the holder inlet and outlet.

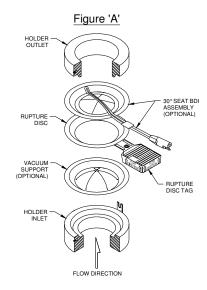
# Replacement Installation

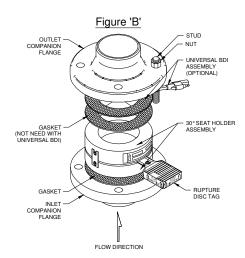
- 1. If the Burst Disc Indicator (B.D.I.<sup>®</sup>) Alarm System is used, disconnect the alarm strip from the monitor by unplugging the B.D.I. connector from the lead wire connector.
- 2. Remove the holder from the system and place on a flat surface.
- Disassemble the holder by loosening the pre-assembly screws, or by removing the pre-assembly cap screws, whichever is applicable. Lift the holder outlet up and set aside; then remove the burst rupture disc.
- 4. Clean the rupture disc sealing area of both the holder inlet and outlet. These surfaces must be completely clean and free of all rust, corrosion, and foreign material to ensure a proper seal. Use of solvents, steel wool, or fine emery cloth is permissible. Do not re-machine. Do not use scraper or abrasives.
- 5. Inspect the rupture disc sealing area for nicks, scratches, or pitting. If any of these conditions are present, consult the factory for repair.
- 6. Remove any adhered gasket material from previous installation.

# B. Assembly of the Rupture Disc and Holder (See Figure A)

Component parts of the 7I Insert 30° Seat Holder assembly are illustrated in the proper installation sequence.

- Carefully remove and discard any shipping protectors furnished with rupture discs or holder. DO NOT INSTALL A SHIPPING PROTECTOR IN A HOLDER ASSEMBLY.
- 2. Place the holder inlet on a flat surface.
- 3. Place the STANDARD Type rupture disc on the holder inlet opening with the dome side facing up as illustrated.
- 4. If the 30° Seat B.D.I. Alarm System is used, visually inspect the adhesion of the strip to the Teflon®\* seal and the electrical circuit. If the strip has become detached or the circuit has been broken, **DO NOT INSTALL THE RUPTURE DISC.** Ensure that the B.D.I. connector strip extends straight and flat.
- 5. Align and lower the holder outlet carefully onto the holder inlet.
- 6. Fasten the assembly together by tightening the pre-assembly screws or by replacing and tightening the pre-assembly cap screws.



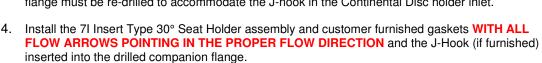


<sup>\*</sup>Teflon is a registered trademark of E.I. du Pont de Nemours and Company used under license.

#### C. Installation of the 7l Insert Type 30° Seat Holder Assembly Into the System (See Figure B)

1. If the B.D.I. Alarm System is to be used, refer to the Universal B.D.I. Assembly Installation Instructions for additional details. (Note: The Universal B.D.I. assembly and the 30° seat B.D.I. assembly are optional accessories, and it is not necessary to use the two together at any one time.)

- 2. Before placing the assembly into the system, ensure that the companion flange gasket surfaces are clean and free of all rust, corrosion, and foreign material.
- 3. A J-Hook (optional) may be provided in the holder inlet to ensure correct installation of the assembly relative to flow direction. If the J-Hook is used, the corresponding inlet companion flange must be drilled to accommodate the J-Hook prior to installation of the assembly. Refer to the J-Hook Installation Guide for locating and drilling specifications. NOTE: If replacing another manufacturer's holder, the corresponding inlet companion flange must be re-drilled to accommodate the J-hook in the Continental Disc holder inlet.



If the B.D.I. Alarm System is used, installation of the strain relief device is necessary (see Figure C).

Slip the strain relief device over one companion flange stud as shown. Place the device near where the B.D.I. strip exits.

Allowing sufficient slack for easy connection to the B.D.I. connector, secure the lead wire to the strain relief device by fastening the twistlock on the clip.

- 6. Install lightly oiled, free running studs and nuts to finger tightness. Using a cross torquing pattern (see Figure D), torque each nut with a calibrated torque wrench at 20% increments of recommended torque value (see Table 1). Repeat 20% increments and cross torquing pattern until final torque value is achieved. Recheck all nuts in rotational sequence at final torque value. When properly torqued, the distance between the holder inlet and the holder outlet should be approximately equal around the perimeter of the holder. These values are based on using gasket materials having a gasket factor of 2.75, gasket seating stress of 3,700 psi, and stud and nut material per ASME SA193-B7 and SA194-2H respectively, with a stress of up to 25,000 psi. The use of studs and nuts with lower strength may prove unsatisfactory.
- If the B.D.I. Alarm System is used, plug the B.D.I. connector into the lead wire connector using a slight twisting action.

# III. Full-Bolted Type 30° Seat Holder

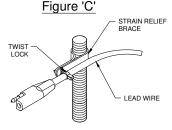
#### A. Preparation of Holders for Installation

#### **New Installation**

Clean all foreign material from the rupture disc sealing area of both the holder inlet and outlet.

# Replacement Installation

- If the Burst Disc Indicator (B.D.I.<sup>®</sup>) Alarm System is used, disconnect the alarm strip from the monitor by unplugging the B.D.I. connector from the lead wire connector.
- 2. Remove the studs and nuts that hold the assembly together.
- 3. Separate the inlet and outlet; then remove the burst rupture disc.
- 4. Clean the rupture disc sealing area of both the holder inlet and outlet. These surfaces must be completely clean and free of all rust, corrosion, and foreign material to ensure a proper seal. Use of solvents, steel wool, or fine emery cloth is permissible. Do not re-machine. Do not use scraper or abrasives.
- 5. Inspect the rupture disc sealing area for nicks, scratches, or pitting. If any of these conditions are present, consult the factory for repair.
- 6. Remove any adhered gasket material from previous installation.



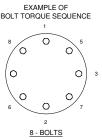
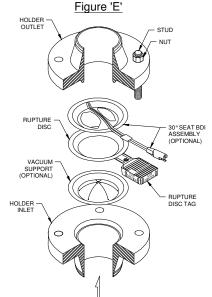


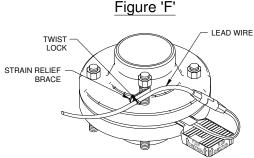
Figure 'D'



#### B. Assembly of the Rupture Disc and Holder (See Figure E)

Component parts of the Full-Bolted Type 30° Seat Holder assembly are illustrated in the proper installation sequence.

- Carefully remove and discard any shipping protectors furnished with rupture discs or holder. DO NOT INSTALL A SHIPPING PROTECTOR IN A HOLDER ASSEMBLY.
- 2. Place the STANDARD Type rupture disc on the holder inlet opening with the dome side facing up as illustrated.
- 3. If the 30° Seat B.D.I. Alarm System is used, visually inspect the adhesion of the strip to the Teflon<sup>®</sup> seal and the electrical circuit. If the strip has become detached or the circuit has been broken, DO NOT INSTALL THE RUPTURE DISC. Ensure that the B.D.I. connector strip extends straight and flat.
- 4. Align and lower the holder outlet carefully onto the holder inlet.
- 5. If the 30° Seat B.D.I. Alarm System us used, installation of the strain relief device is necessary. This requires that one stud approximately 2 inches longer than the others is needed near where the B.D.I. strip exits (see Figure F). Slip the strain relief device over the longer stud and secure with a nut. Allowing sufficient slack for easy connection to the B.D.I. connector, secure the lead wire to the strain relief device by fastening the twist lock.



- 6. Install lightly oiled, free running studs and nuts to finger tightness. Using a cross torquing pattern (see Figure D, page 3), torque each nut with a calibrated torque wrench at 20% increments of recommended torque value (see Table 1). Repeat 20% increments and cross torquing pattern until final torque value is achieved. Recheck all nuts in rotational sequence at final torque value. When properly torqued, the distance between the holder inlet and the holder outlet should be approximately equal around the perimeter of the holder. These values are based on using gasket materials having a gasket factor of 2.75, gasket seating stress of 3,700 psi, and stud and nut material per ASME SA193-B7 and SA194-2H respectively, with a stress of up to 25,000 psi. The use of studs and nuts with lower strength may prove unsatisfactory.
- 7. If the 30° Seat B.D.I. Alarm System is used, plug the B.D.I. connector into the lead wire connector using a slight twisting action.

# IV. Union Type Holder

### A. Preparation of Holders for Installation

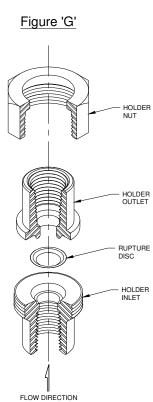
New and Replacement Installation

- Clean the rupture disc sealing area of both the holder inlet and outlet. These surfaces
  must be completely clean and free of all rust, corrosion, and foreign material to ensure a
  proper seal. Use of solvents, steel wool, or fine emery cloth is permissible. Do not remachine. Do not use scraper or abrasives.
- Care should be taken during assembly and installation to ensure that nothing sharp
  protrudes down through the inlet or outlet cavities. A rupture disc that has been scratched,
  dented, or damaged in any way, may result in premature failure.

# B. Assembly of the Rupture Disc and Holder (See Figure G)

Component parts of the Union Type assembly are illustrated in the proper installation sequence.

- 1. Place the holder inlet on a flat surface.
- Position the rupture disc in the holder inlet with the dome side facing up as shown. Handle with care.
- 3. Carefully lower the holder outlet onto the rupture disc.



4. Slip the nut over the holder outlet and thread it onto the holder inlet. Place a wrench on the holder inlet to keep it from turning. Using a calibrated torque wrench, torque the nut to the following requirements:

Torque for all Discs except Aluminum w/Teflon Liners					Torque for Aluminum Discs w/Teflon Liners					
•	Pressure Rating	Torque Re	quirement		Pressure	Rating	Torque Re	quirement		
Size	Holder	(Ft•Lbs)	(N•m)	Size	Disc	Holder	(Ft•Lbs)	(N•m)		
1/2"	3000	50	68	1/2"	ALL	3000	50	68		
	6000	80	108		ALL	6000	80	108		
1"	4000	200	271	1"	ALL	4000	150	203		
	6000	300	407		ALL	6000	150	203		
1-1/2"	4000	800	1085	1-1/2"	ALL	4000	200	271		
2"	4000	2000	2711	2"	≤ 300	4000	350	475		
					> 300 - 500	4000	1300	1762		

# Recommended Torque Values for Standard Type Rupture Discs (Light Lip and Heavy Lip)

# TABLE 1

SIZE		COMPANION FLANGE RATING			DISCS WITHC B.D.I. AS	OUT 30° SEAT	DISCS WITH 30° SEAT B.D.I. ASSEMBLY OR TEFLON LINERS	
IN	MM	ANSI	DIN	JIS	TORQUE (FT•LB)	TORQUE (N•m)	TORQUE (FT•LB)	TORQUE (N•m)
1/2"	12	150			10	14	7	10
1/2"	12		10/16		10	14	6	8
1/2"	12			10/16/20	10	14	6	8
1/2"	12	300/600			14	19	7	10
1/2"	12		25/40		10	14	6	8
1/2"	12			30/40	18	24	8	11
1/2"	12	900/1500			51	69		
1/2"	12	2500			84	114		
<u> </u>	12	2300			-			
3/4"	20	150			10	14		
3/4"	20		10/16	10/16/20	10	14		
3/4"	20	300/600			23	31		
3/4"	20		25/40		12	16		
3/4"	20			30/40	25	34		
3/4"	20	900/1500			70	95		
3/4"	20	2500			116	157		
1	25	150			20	28	9	12
1	25		10/16		19	26	9	12
1	25			10/16/20	25	34	12	16
1	25	300/600			30	41	12	16
1	25		25/40		23	32	9	12
1	25			30/40	30	41	12	16
1	25	900/1500			110	150		
1	25	2500			180	244		
1-1/2	40	150			30	41	13	18
1-1/2	40		10/16	10/16/20	38	52	17	23
1-1/2	40	300/600			50	68	20	27
1-1/2	40		25/40		42	57	17	23
1-1/2	40			30/40	53	72	21	28
1-1/2	40	900/1500			165	224		
1-1/2	40	2500			375	509		
2	50	150	10/16	10	40	55	21	28
2	50			16/20	20	27	11	15
2	50	300/600			45	61	39	53
2	50		25/40		91	124	79	107
2	50			30/40	45	61	39	53
2	50	900/1500			130	177		
2	50	2500			250	339		
3	80	150			50	68	20	27
3	80		10/16	10	25	34	10	14
3	80			16/20	31	42	13	18
3	80	300/600			85	115	20	27
3	80		25/40		71	96	17	23
3	80			30/40	89	121	21	28
3	80	900			145	197		
3	80	1500			325	441		
3	80	2500			485	658		

# Recommended Torque Values for Standard Type Rupture Discs (Light Lip and Heavy Lip) TABLE 1

SIZE		COMPANION FLANGE RATING			DISCS WITHO B.D.I. AS		DISCS WITH 30° SEAT B.D.I. ASSEMBLY OR TEFLON LINERS	
IN	MM	ANSI	DIN	JIS	TORQUE (FT•LB)	TORQUE (N•m)	TORQUE (FT•LB)	TORQUE (N•m)
4	100	150	10/16	10	50	68	15	20
4	100			16/20	63	86	19	26
4	100	300			70	95	25	34
4	100		25/40		73	99	26	35
4	100			30	81	110	29	39
4	100	600			160	217		
4	100			40	158	214		
4	100	900			310	421		
4	100	1500			480	651		
4	100	2500			875	1186		
6	150	150			60	82	20	27
6	150		10/16	10	63	86	21	28
6	150			16/20	46	62	15	20
6	150	300			100	136	20	27
6	150		25/40		189	256	38	52
6	150			30	126	171	25	34
6	150	600			255	346		
6	150			40	241	327		
8	200	150			110	149	50	68
8	200		10		115	156	52	70
8	200		16	10	77	104	35	47
8	200			16/20	85	115	38	52
8	200	300			185	251	40	54
8	200		25	30	200	271	43	58
8	200		40		225	305	49	66
8	200	600			375	508		
8	200			40	315	427		
10	250	150			153	207	60	81
10	250		10		138	187	54	73
10	250			10	151	205	59	80
10	250		16	16/20	165	224	65	88
10	250	300			185	251		
10	250		25		262	355		
10	250		40	30	291	395		
12	300	150			145	197		
12	300		10		130	176		
12	300			10	108	146		
12	300		16		157	213		
12	300			16/20	117	159		
12	300	300			250	339		
12	300		25		236	320		
12	300		40	30	262	355		

# Recommended Torque Values for Standard Type Rupture Discs (Light Lip and Heavy Lip)

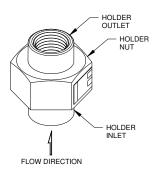
### TABLE 1

SIZE		COMPANION FLANGE RATING			DISCS WITHO B.D.I. AS		DISCS WITH 30° SEAT B.D.I. ASSEMBLY OR TEFLON LINERS	
IN	MM	ANSI	DIN	JIS	TORQUE (FT•LB)	TORQUE (N•m)	TORQUE (FT•LB)	TORQUE (N•m)
14	350	150			230	312		
14	350		10		136	184		
14	350			10	149	202		
14	350		16		163	221		
14	350			16/20	204	277		
14	350	300			250	339		
14	350		25	30	328	445		
14	350		40		361	489		
16	400	150			230	312		
16	400		10	10	217	294		
16	400		16		245	332		
16	400			16/20	272	369		
16	400	300			255	346		
16	400		25		331	449		
16	400		40	30	361	489		
18	450	150			280	380		
18	450			10	188	255		
18	450			16/20	294	399		
18	450	300			270	366		
20	500	150			350	475		
20	500		10	10	294	399		
20	500		16	16/20	367	498		
20	500	300			320	434		
20	500		25		399	541		
20	500		40		472	640		
24	600	150			465	630		
24	600		10		395	536		
24	600			10	366	496		
24	600		16		483	655		
24	600			16/20	439	595		
24	600	300			465	630		
24	600		25		527	714		

# C. Installation of the Union Type Assembly into the System (See Figure H)

- 1. Assure that the unit being installed is compatible with current system operating conditions.
- 2. Before installing the Union Type assembly into the system, clean mating threads of all grit, dirt, or foreign material to ensure proper seal.
- When installing the assembly into the system, do not tighten or loosen seal between holder inlet and holder outlet, for this could cause damage to the rupture disc or cause premature failure.

# Figure 'H'



#### V. Preventative Maintenance

- Risk assessment and an annual rupture disc replacement are recommended. Rupture disc service life is determined by system operating conditions. The effects of severe pressure/vacuum cycles, corrosion, temperature variations, or other adverse conditions must be evaluated by the user through actual service experience to determine optimal service life.
- 2. IF THE RUPTURE DISC IS NOT REPLACED PERIODICALLY WHEN EXPOSED TO THESE CONDITIONS, PREMATURE FAILURE OF THE RUPTURE DISC MAY OCCUR, THEREBY DISCHARGING THE PROCESS MEDIA.
- To avoid extended downtime, maintain three spare rupture discs in stock at all times for each holder in use. The number of spares required ultimately will be determined by service conditions.

#### VI. Customer Service

If you wish to discuss your application, installation, or maintenance, please contact the Customer Service Department at one of the addresses shown below.

#### **B.D.I. ALARM SYSTEM OPERATING LIMITS**

TEMPERATURE:  $-40 \degree F \text{ to } + 400 \degree F$  $(-40 \degree C \text{ to } + 204 \degree C)$ 

MAX CURRENT: 50 Milli Amps MAX VOLTAGE: 24 VDC RMS

FULFILLS THE REQUIREMENTS OF DIRECTIVE 94/9/EC (ATEX) FOR: Equipment or protective system intended for use in potentially explosive atmospheres.

Conformity assessment performed by Notified Body no. 0359, Intertek Testing and Certification Limited, Leatherhead, Surrey, UK.

BURST DISC INDICATOR (B.D.I.®): Sizes 25mm through 900mm (1 inch through 36 inches)

Marked:

II 1 G Ex ia IIC Tx Ga
II 1 D Ex ia IIIC Tx Da
(Tamb = -40°C to +204°C)

EC Type Examination Certificate: ITS13ATEX27734X

THE MAXIMUM INTRINSICALLY SAFE INPUT PARAMETERS ARE AS FOLLOWS:

Ui = 24V dc li = 50 mA Pi = 0.3W

THE EQUIVALENT PARAMETERS ARE:

Ci = 0 Li = 0

#### SPECIAL CONDITIONS FOR SAFE USE:

- The arrangements for connection of the external circuits must comply with the requirements of clause 6.2 of EN 60079-11:2012.
- 2. The component must be housed in an enclosure which provides a degree of protection of at least IP 20.
- 3. The final installation shall comply with the 500 volt electrical strength test requirement of clause 6.3.12 of EN 60079-11:2012.
- 4. The installation shall prevent electrostatic charging of the BDI strip, which is non-conductive and may exceed the surface area limitations of EN 60079-0:2012 clause 7.4.2.



Performance Under Pressure®





If stamped, this product is built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section VIII., Division 1.

# China Manufacture Li cense Products are in full compliance with the provisions of the Peoples Republic of China Import Regulations for Boiler and Pressure Vessel safety devices.



3A Sanitary Standards Stamp If stamped, this productis in full compliance with the 3A standards, Serial #60-00, of the International Association of Milk, Food, and Environmental Sanitarians, Inc.



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





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