



## RUPTURE DISC PRODUCT CATALOGUE



FLAMMER MANUFACTURES RUPTURE DISC,  
PRESSURE SAFETY VALVES, DUST EXPLOSION  
PROTECTION EQUIPMENT AND FLAME ARRESTERS

### PROBLEM? SOLVED.

Contact your Flammer sales manager today or  
learn more at [www.flammertech.com](http://www.flammertech.com)



## The Best from the Best

Rupture discs symbolize trust, and at Flammer, we ensure every disc delivers flawless performance. Precision is critical—it safeguards your business and, most importantly, protects lives.

Flammer's premium XRC series rupture discs are the result of years of research and innovation, offering unmatched operating ratios, the tightest burst tolerances, and the longest life cycles.

Safety isn't just a responsibility—it's our mission. Since our inception, we've been dedicated to delivering the best protection for your systems and processes worldwide. Our experts provide honest analysis, top-quality products, and tailored solutions to optimize your operations.

Choosing Flammer means choosing uncompromising safety. As an independent company, we deliver high-quality safety solutions and 24/7 expert support in process and explosion safety technology—all year round.

That's our promise.

Intelligent Safety Solutions



**FLAMMER MANUFACTURES RUPTURE DISC,  
PRESSURE SAFETY VALVES, DUST EXPLOSION  
PROTECTION EQUIPMENT AND FLAME ARRESTERS**

### **PROBLEM? SOLVED.**

Contact your Flammer sales manager today or  
learn more at [www.flammertech.com](http://www.flammertech.com)



## FLAMMER PRESSURE RELIEF SOLUTIONS

# Rupture Discs for Every Application

In the process industry, high pressures and temperatures demand reliable safety solutions. A single unexpected pressure surge can lead to catastrophic equipment failure—and worse, loss of life. Flammer Rupture Discs and Pressure Safety Valves provide critical protection, instantly relieving dangerous overpressure and ensuring safety.

## HOW FLAMMER RUPTURE DISCS CAN SOLVE YOUR PRESSURE RELIEF PROBLEMS

### Reliable Rupture Discs

Every Flammer rupture disc is rigorously leak-tested at maximum operating pressure, ensuring precise relief and preventing premature failure. With tighter burst tolerances, extended cycle life, and high operating ratios, they keep your systems running safely and efficiently for longer.



### Hygienic Pressure Relief

Hygienic rupture discs stay contamination-free, resist bacteria, and work seamlessly with CIP/SIP cleaning. Perfect for food, beverage, and pharma industries, they can also be treated to eliminate rust-causing carbon.

### Custom-Engineered Rupture Discs

From ultra-low to extreme pressures (0.01 bar to 2500 bar) and sizes ranging from 3 mm to 1400 mm, Flammer designs rupture discs tailored to your unique operational needs.



### Pressure Relief Valve Protection

Pressure Relief Valves (PRVs) can be costly to maintain, prone to toxic leaks, and vulnerable to clogging. Flammer XRS and XRC series rupture discs work alongside PRVs to safeguard these critical devices, enable in-situ testing, and detect leaks or valve activation. By preventing toxic leaks and resisting corrosion, Flammer rupture discs enhance safety while reducing maintenance costs.

### Explosion Protection

Flammer also offer dust explosion protection equipment:

1. Explosion Vents
2. Flameless Explosion Vents
3. Explosion Isolation Valves
4. Explosion Suppression Systems





## FORWARD ACTING RUPTURE DISCS



	<b>LX</b> Ideal for High Pressure Applications	<b>LD Series</b> Wide Range of Sizes/Burst Pressures, Wide Range of Applications	<b>LF Series</b> Protection of Atmospheric Vessels, AD-H for Sanitary Applications	<b>LP Series</b> Wide Range of Sizes/Burst Pressures, Economical
<b>Disc</b>				
<b>Size Range</b>	0.5-12 in. DN3-300	1-24 in. DN25-600	1-24 in. DN25-600	0.5-12 in. DN3-300
<b>Burst Pressure</b>	30-14500 PSIG 2-1000 BARG	1.5-6000 PSIG 0.10-413.69 BARG	1-15 PSIG 35-1034 MBARG	30-14500 PSIG 2-1000 BARG
<b>Operating Ratio</b>	90% of marked burst pressure	80% of marked burst pressure	50% of marked burst pressure	70% of marked burst pressure
<b>EU Operating Ratio</b>	95% of min burst pressure	85% of min burst pressure	55% of min burst pressure	75% of min burst pressure
<b>Non-Fragmenting</b>	Yes	No	No	No
<b>Vacuum Resistant</b>	Yes	Yes (LDV)	Yes (LF-V)	Yes (LV)
<b>Pulsating/Cyclic</b>	Good	Good	NR*	Better
<b>Process Media</b>	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas



## REVERSE ACTING RUPTURE DISCS



**XRC**  
Advanced Design  
High Cycling  
Performance, Long  
Service Life, Efficient



**XRS**  
Suitable for Medium  
to High Pressure  
Ranges, Uses Jaw  
Tooth Ring



**XRX**  
Suitable for Medium  
to High Pressure  
Applications, 4 Petal  
Burst Pattern

Disc

Size Range

1-12 in.  
DN25 -300

1-12 in.  
DN25 -300

1-12 in.  
DN25 -300

Burst Pressure

5-300 PSIG  
0.345-20.68 BARG

3.25-1500 PSIG  
0.22-103.24 BARG

3.25-1450 PSIG  
0.22-103.24 BARG

Operating Ratio

95% of marked burst pressure > 40 psig and 95% of min burst tolerance for burst pressure ≤ 40 psig

95% of marked burst pressure > 40 psig and 95% of min burst tolerance for burst pressure ≤ 40 psig

90% of marked burst pressure > 40 psig and 90% of min burst tolerance for burst pressure ≤ 40 psig

EU Operating Ratio

95% of min burst tolerance for burst pressure ≤ 2.76 barg and 100% of min burst pressure > 2.76 barg

95% of min burst tolerance for burst pressure ≤ 2.76 barg and 100% of min burst pressure > 2.76 barg

90% of min burst tolerance for burst pressure ≤ 2.76 barg and 95% of min burst pressure > 2.76 barg

Non-Fragmenting

Yes

Yes

Yes

Vacuum Resistant

Yes

Yes

Yes

Pulsating/Cyclic

Best

Good

Good

Process Media

Liquid/Vapor/Gas

Liquid/Vapor/Gas

Liquid/Vapor/Gas



## XRC - HIGH PERFORMANCE REVERSE BUCKLING RUPTURE DISC

The XRC Series of reverse buckling type rupture disks have state-of-art design to cover the most challenging of rupture disc applications with high pulsations or cyclic loads and operating pressures as high as 95% of the marked burst pressure of rupture discs. They are designed to be used in the HLI and HLI-TQ Series disc holder. Flammer XRC Rupture Disc are available for low to medium burst pressures.

### PERFORMANCE FEATURES

- Designed for Non-fragmentation
- Operating ratios up to 95% of the marked burst pressure
- Disc design offers high cycle life ensuring long service
- Suitable for liquid, gas, or two-phase applications
- Available with Zero Manufacturing Range as standard
- Withstands full vacuum
- Available in exotic materials
- Sizes from 1" (25mm) through 12" (300mm)
- Burst ratings from 5 psig to 300 psig, 0.345 bar (G) to 20.68 bar (G)
- Unique alignment design ensures proper disk orientation into HLI and HLI-TQ
- 3-dimensional stainless steel tag permanently attached and engraved with complete disk specifications
- CE (PED) Certified and ASME compliance available



XRC Series disk mounts into HLI-TQ Series disc holder (refer to HLI-TQ Series data sheet)

### OPTIONAL ACCESSORIES

Liner	A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media.
Sensor	BI Series Burst Indicator Sensor
Test	Factory tested to 100% of the low end of the tolerance to insure no disks will burst low
Holder	Available in Insert Type and Pre-torqued Holder Configuration with HLI and HLI-TQ models

### SAFETY RELIEF VALVE PROTECTION

When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.

# XRC Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure							Maximum Burst Pressure	MNFA in2 (mm2)	
	316L	Inconel	Monel 400	Nickel 200/201	Hastelloy C276	Tantalum	XRC-BI			
1"	43	43	43	43	43	50	Same as minimum material	525	0.86	
25 mm	2.96	2.96	2.96	2.96	2.96	3.44		36.19	554	
1.5"	29	29	29	29	29	50		400	1.63	
40 mm	2	2	2	2	2	3.44		27.58	1,051	
2", 2.5"	15	15	15	15	15	29		350	2.78	
50, 65 mm	1.03	1.03	1.03	1.03	1.03	2		24.13	1,793	
3"	7	7	7	7	7	15		325	5.69	
80 mm	0.48	0.48	0.48	0.48	0.48	1.03		22.41	3,670	
4"	5	36	36	36	36	8		285	9.51	
100 mm	0.34	2.482	2.482	2.482	2.482	0.55		19.69	6,135	
6"	3	5	5	5	5	6		200	19.46	
150 mm	0.2	0.34	0.34	0.34	0.34	0.41		13.79	12,554	
8"	3	5	5	5	5	7		150	33.28	
200 mm	0.2	0.34	0.34	0.34	0.34	0.482		10.34	21,470	
10"	3	5	5	5	5	5		100	50.78	
250 mm	0.2	0.34	0.34	0.34	0.34	0.34		6.89	32,761	
12"	3	3	3	3	3	3		70	71.97	
300 mm	0.2	0.2	0.2	0.2	0.2	0.34		4.83	46,432	
Max. Temp.	900°F (482°C)	900°F (482°C)	800°F (427°C)	700°F (399°C)	900°F (482°C)	500°F (260°C)		400°F (204°C)		

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
1.63	1.63



XRC Series disk mounts into HLI Series disk holder (refer to HLI Series data sheet)

Flammer - Trademark of Flammer Technologies Pvt Ltd  
 Teflon - Trademark of The Chemours Company  
 Inconel - Trademark of Special Metals Corporation  
 Monel - Trademark of Special Metals Corporation  
 Hastelloy - Trademark of Haynes International

[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
 Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
[www.rupturedisc.com](http://www.rupturedisc.com) GST:24AAF7514C1Z1



## XRS - HIGH PERFORMANCE REVERSE BUCKLING RUPTURE DISC

The XRS Series of reverse buckling type rupture disks are complementary designs to cover the majority of rupture disc applications and are designed to be used in the HLI and HLI-TQ Series disc holder. Flammer XRS Rupture Disc consists of a bulged, solid metal single or multi-layered reverse buckling type rupture disc with jaw tooth ring for low to medium burst pressures.



### PERFORMANCE FEATURES

- Designed for Non-fragmentation
- Operating ratios up to 90% of the marked burst pressure
- Disk design offers high cycle life
- Suitable for liquid, gas, or two-phase applications
- Available with Zero Manufacturing Range as standard
- Withstands full vacuum
- Available in exotic materials
- Sizes from 1" (25mm) through 12" (300mm)
- Burst ratings from 5 psig (0.345 barg) to 1450 psig (100 barg)
- Unique alignment pin design ensures proper disk orientation into HLI and HLI-TQ
- CE (PED) Certified and ASME compliance available

### OPTIONAL ACCESSORIES

- |        |  |
|--------|--|
| Liner  | A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media. |
| Sensor | BI Series Burst Indicator Sensor   |
| Test   | Factory tested to 100% of the low end of the tolerance to insure no disks will burst low                         |
| Holder | Available in Insert Type and Pre-torqued Holder Configuration with HLI and HLI-TQ models                         |

### SAFETY RELIEF VALVE PROTECTION

When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.

# XRS Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure							Maximum Burst Pressure	MNFA in2 (mm2)
	316	Inconel	Monel 400	Nickel 200/201	Hastelloy C276	Tantalum	XRS-BI		
1"	100	100	100	100	100	50	Same as minimum material	1451	0.86
25 mm	6.894	6.894	6.894	6.894	6.894	3.447		100.042	554
1.5"	72	72	72	72	72	50		1451	1.63
40 mm	4.964	4.964	4.964	4.964	4.964	3.447		100.042	1,051
2", 2.5"	43	43	43	43	43	43		1451	2.78
50, 65 mm	2.964	2.964	2.964	2.964	2.964	2.964		100.042	1,793
3"	43	43	43	43	43	29		1016	5.69
80 mm	2.964	2.964	2.964	2.964	2.964	1.999		70.05	3,670
4"	36	36	36	36	36	29		872	9.51
100 mm	2.482	2.482	2.482	2.482	2.482	1.999		60.122	6,135
6"	29	29	29	29	29	29		291	19.46
150 mm	1.999	1.999	1.999	1.999	1.999	1.999		20.063	12,554
8"	7	7	7	7	7	7		232	33.28
200 mm	0.482	0.482	0.482	0.482	0.482	0.482		15.995	21,470
10"	5	5	5	5	5	5		129	50.78
250 mm	0.345	0.345	0.345	0.345	0.345	0.345		8.273	32,761
12"	5	5	5	5	5	5		80	71.97
300 mm	0.345	0.345	0.345	0.345	0.345	0.345		5.515	46,432
Max. Temp.	900°F (482°C)	900°F (482°C)	800°F (427°C)	700°F (399°C)	900°F (482°C)	500°F (260°C)		400°F (204°C)	

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
1.63	1.63



[rupturedisc.com](http://rupturedisc.com)

Flammer - Trademark of Flammer Technologies Pvt Ltd  
 Teflon - Trademark of The Chemours Company  
 Inconel - Trademark of Special Metals Corporation  
 Monel - Trademark of Special Metals Corporation  
 Hastelloy - Trademark of Haynes International



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
 Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
[www.rupturedisc.com](http://www.rupturedisc.com) GST:24AAFCF7514C1Z1



## XRX - HIGH PRESSURE REVERSE BUCKLING RUPTURE DISC

The XRX Series of reverse buckling type rupture disks are suitable for use with high pressure applications. They are designed to be used in the HLI and HLI-TQ Series disc holder. Flammer XRX Rupture Disc consists of a bulged, solid metal single layered reverse buckling type rupture disc with X shaped grooving pattern. It bursts in the form of 4 petaled flower type configuration and is suitable for high burst pressure applications.

### PERFORMANCE FEATURES

- Designed for Non-fragmentation
- Operating ratios up to 90% of the marked burst pressure
- Disk design offers high cycle life
- Suitable for liquid, gas, or two-phase applications
- Available with Zero Manufacturing Range as standard
- Withstands full vacuum
- Available in exotic materials
- Sizes from 1" (25mm) through 12" (300mm)
- Burst ratings from 30 psig to 1450 psig, 2 bar (G) to 100 bar (G)
- Unique alignment design ensures proper disk orientation into HLI and HLI-TQ
- 3-dimensional stainless steel tag permanently attached and engraved with complete disk specifications
- CE (PED) Certified and ASME compliance available



### OPTIONAL ACCESSORIES

- |        |  |
|--------|--|
| Liner  | A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media. |
| Sensor | BI Series Burst Indicator Sensor   |
| Test   | Factory tested to 100% of the low end of the tolerance to insure no disks will burst low                         |
| Holder | Available in Insert Type and Pre-torqued Holder Configuration with HLI and HLI-TQ models                         |



XRX Series disk mounts into HLI Series disk holder (refer to HLI Series data sheet)

### SAFETY RELIEF VALVE PROTECTION

When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.

# XRX Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure							Maximum Burst Pressure	MNFA in2 (mm2)	
	316	Inconel	Monel 400	Nickel 200/201	Hastelloy C276	Tantalum	XRS-BI			
1"	400	400	400	400	400	400	Same as minimum material	1451	0.86	
25 mm	27.579	27.579	27.579	27.579	27.579	27.579		100.042	554	
1.5"	300	300	300	300	300	300		1451	1.63	
40 mm	20.68	20.68	20.68	20.68	20.68	20.68		100.042	1,051	
2", 2.5"	220	220	220	220	220	220		1451	2.78	
50, 65 mm	15.16	15.16	15.16	15.16	15.16	15.16		100.042	1,793	
3"	180	180	180	180	180	180		1016	5.69	
80 mm	12.41	12.41	12.41	12.41	12.41	12.41		70.05	3,670	
4"	150	150	150	150	150	150		872	9.51	
100 mm	10.342	10.342	10.342	10.342	10.342	10.342		60.122	6,135	
6"	100	100	100	100	100	100		872	19.46	
150 mm	6.894	6.894	6.894	6.894	6.894	6.894		60.122	12,554	
8"	30	30	30	30	30	30		725	33.28	
200 mm	2.06	2.06	2.06	2.06	2.06	2.06		50	21,470	
10"	30	30	30	30	30	30		600	50.78	
250 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	32,761	
12"	30	30	30	30	30	30		600	71.97	
300 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	46,432	
Max. Temp.	900°F (482°C)	900°F (482°C)	800°F (427°C)	700°F (399°C)	900°F (482°C)	500°F (260°C)		400°F (204°C)		

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

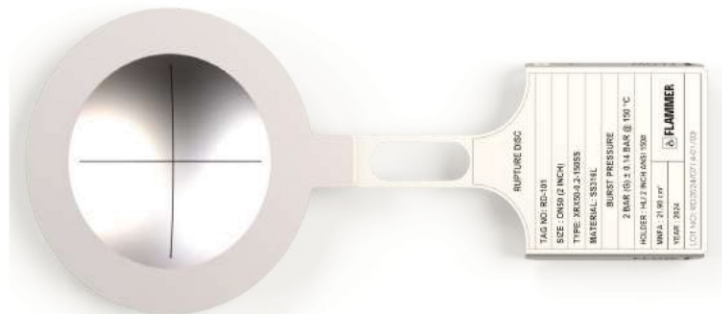
ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
1.63	1.63



[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
 Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
[www.rupturedisc.com](http://www.rupturedisc.com) GST:24AAFCF7514C1Z1



## LP - PRE-BULGED FORWARD ACTING RUPTURE DISC

The LP Series of forward acting type rupture disks are suitable for use with high pressure applications. They are designed to be used in the HLR, HLR-TQ Series disc holders, Threaded Assemblies and Union Type configuration. It is available in vast range of sizes and thus making it versatile for large no. of applications where size is a constraint.

### PERFORMANCE FEATURES

- The LP series is a forward-acting, tension-loaded design
- Operating ratios up to 70% of the marked burst pressure
- Excellent for liquid, gas and two phase applications
- Withstands full vacuum
- Available in exotic materials
- Sizes from 0.1" (3mm) through 12" (300mm)
- Burst ratings from 50 psig to 10000 psig, 3.5 bar (G) to 700 bar (G)
- Unique alignment design ensures proper disk orientation into HLR and HLR-TQ
- 3-dimensional stainless steel tag permanently attached and engraved with complete disk specifications
- Versatile and available in various mounting configurations  
Insert Type Assemblies, Threaded, Union Type Assemblies



### OPTIONAL ACCESSORIES

- |        |  |
|--------|--|
| Liner  | A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media.                       |
| Sensor | BI Series Burst Indicator Sensor   |
| Test   | Factory tested to 75% of the low end of the tolerance to insure no disks will burst low  |
| Holder | Available in Insert Type and Pre-torqued Holder Configuration with HLR and HLR-TQ models, Available in Threaded and Union Type Holders |



LP Series disk mounts into HLR Series disk holder (refer to HLR Series data sheet)  
Also suitable for Union Type, Threaded Holders

# LP Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure							Maximum Burst Pressure	MNFA in2 (mm2)	
	316	Inconel	Monel 400	Nickel 200/201	Hastelloy C276	Tantalum	XRS-BI			
0.1" - 1"	400	400	400	400	400	400	Same as minimum material	14510	----	
3 - 25 mm	27.579	27.579	27.579	27.579	27.579	27.579		10000	----	
1.5"	300	300	300	300	300	300		1451	1.63	
40 mm	20.68	20.68	20.68	20.68	20.68	20.68		100.042	1,051	
2", 2.5"	220	220	220	220	220	220		1451	2.78	
50, 65 mm	15.16	15.16	15.16	15.16	15.16	15.16		100.042	1,793	
3"	180	180	180	180	180	180		1016	5.69	
80 mm	12.41	12.41	12.41	12.41	12.41	12.41		70.05	3,670	
4"	150	150	150	150	150	150		872	9.51	
100 mm	10.342	10.342	10.342	10.342	10.342	10.342		60.122	6,135	
6"	100	100	100	100	100	100		872	19.46	
150 mm	6.894	6.894	6.894	6.894	6.894	6.894		60.122	12,554	
8"	30	30	30	30	30	30		725	33.28	
200 mm	2.06	2.06	2.06	2.06	2.06	2.06		50	21,470	
10"	30	30	30	30	30	30		600	50.78	
250 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	32,761	
12"	30	30	30	30	30	30		600	71.97	
300 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	46,432	
Max. Temp.	900°F (482°C)	900°F (482°C)	800°F (427°C)	700°F (399°C)	900°F (482°C)	500°F (260°C)		400°F (204°C)		

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
0.92	0.92

Flammer - Trademark of Flammer Technologies Pvt Ltd  
 Teflon - Trademark of The Chemours Company  
 Inconel - Trademark of Special Metals Corporation  
 Monel - Trademark of Special Metals Corporation  
 Hastelloy - Trademark of Haynes International

[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
 Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
[www.rupturedisc.com](http://www.rupturedisc.com) GST:24AAFCF7514C1Z1



## LF - LOW PRESSURE FORWARD ACTING RUPTURE DISC

The LF Series of forward-acting rupture discs are designed for applications requiring very low burst pressures. They are specifically engineered for use with the HLR and HLR-TQ Series disc holders. The Flammer LF Series Rupture Disc features a multi-layered design, making it suitable for low to medium burst pressures. Additionally, they can be installed without a holder by sandwiching them between flanges.



### PERFORMANCE FEATURES

- State-of-the-art laser slotted metal section
- Operating ratios up to 50% of the marked burst pressure
- No disk holder required
- Suitable for liquid, gas, or two-phase applications
- Sizes from 1" (25mm) through 56" (1400mm)
- Burst ratings 1 psig (0.07 barg) to 60 psig (4.14 barg)
- Available in uni-directional or bi-directional designs

### OPTIONAL ACCESSORIES

- Liner** A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media.
- Sensor** BI Series Burst Indicator Sensor
- Test** Factory tested to 100% of the low end of the tolerance to insure no disks will burst low
- Holder** Available in Insert Type and Pre-torqued Holder Configuration with HLI and HLI-TQ models

### CONFIGURATIONS

Disk Type	Materials of Construction	Function	Features	Nominal Thickness
LF	Gasket/Seal/Cap/Seal/Gasket	Bi-Directional	Bursts at the specified pressure in both directions	1/8" (3.18mm)
LF-VI	Gasket/Cap/Seal/Insulation/Cap/Gasket	Uni-Directional	Includes thermal insulation for high temperature application.	
LF-B	Gasket/Cap/Seal/Cap/Gasket	Bi-Directional	Bursts at two different set pressures as specified	
LF-V*	Gasket/Cap/Seal/Support/Gasket	Uni-Directional	Bursts at the specified pressure in one direction, withstands full vacuum	

# LF Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	LF LF-B LF-V	LF-VI	Maximum Burst Rating (All Types)
	Minimum Burst Rating	Minimum Burst Rating	
1"	10	20	60
25 mm	0.690	1.379	4.136
1-1/2"	6	10	60
40 mm	0.414	0.690	4.136
2"	6	7	60
50 mm	0.414	0.483	4.136
2-1/2"	5	6	60
65 mm	0.345	0.414	4.136
3"	4	5	60
80 mm	0.276	0.345	4.136
4"	3	4	60
100 mm	0.207	0.276	4.136
5"	2.5	3	60
125 mm	0.173	0.207	4.136
6"	2	2	60
150 mm	0.138	0.138	4.136
Max.Temp.	500°F (260°C)		

Disk Size	LF LF-B LF-V	LF-VI	Maximum Burst Rating (All Types)
	Minimum Burst Rating	Minimum Burst Rating	
8"	1.5	1.6	60
200 mm	0.104	0.111	4.136
10"	1.25	1.25	60
250 mm	0.087	0.087	4.136
12"	1	1	60
300 mm	0.069	0.069	4.136
14"	1	1	60
350 mm	0.069	0.069	4.136
16"	1	1	60
400 mm	0.069	0.069	4.136
18"	1	1	55
450 mm	0.069	0.069	3.792
20"	1	1	50
500 mm	0.069	0.069	3.447
24"	1	1	45
600 mm	0.069	0.069	3.102
Max.Temp.	500°F (260°C)		

Disk Size	LF LF-B LF-V	LF-VI	Maximum Burst Rating (All Types)
	Minimum Burst Rating	Minimum Burst Rating	
28"	1	1	40
700 mm	0.069	0.069	2.757
30"	1	1	35
750 mm	0.069	0.069	2.413
32"	1	1	35
800 mm	0.069	0.069	2.413
34"	1	1	30
850 mm	0.069	0.069	2.068
36"	1	1	25
900 mm	0.069	0.069	1.723
40"	1	1	20
1000 mm	0.069	0.069	1.378
44"	1	1	15
1100 mm	0.069	0.069	1.034
48"	1	1	15
1200 mm	0.069	0.069	1.034
Max.Temp.	500°F (260°C)		

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

Standard Material of Construction: SS316L, Hastelloy C276, Nickel 200/201, Monel 400, Inconel

Material for Seal: PTFE/FEP/PFA, SS316L, Aluminium, Hastelloy C276, Nickel 200/201, Monel 400, Inconel

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

Flammer - Trademark of Flammer Technologies Pvt Ltd  
Teflon - Trademark of The Chemours Company  
Inconel - Trademark of Special Metals Corporation  
Monel - Trademark of Special Metals Corporation  
Hastelloy - Trademark of Haynes International

[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
www.rupturedisc.com GST:24AAFCF7514C1Z1



## LD - DOMED COMPOSITE FORWARD ACTING RUPTURE DISC

The LD Series of domed composite forward-acting rupture discs feature a three-layer configuration consisting of a slotted metal top section, a Teflon seal, and a vacuum support. They are designed for use with the HLR and HLR-TQ Series disc holders. Flammer LD Rupture Discs are available for low to medium burst pressures and can also be configured for installation without a holder, directly between flanges.

### PERFORMANCE FEATURES

- The LD Series has a slotted metal top section and allows the use of metal & Teflon seal materials. A wide variety of corrosive resistant seal materials are available
- Operating ratios up to 80% of the marked burst pressure
- Disc design offers high cycle life ensuring long service
- Suitable for liquid, gas, or two-phase applications
- Available with Zero Manufacturing Range as standard
- Withstands full vacuum
- Available in exotic materials
- Sizes from 1" (25mm) through 44" (1100mm)
- Burst ratings from 5 psig to 300 psig, 0.345 bar (G) to 20.68 bar (G)
- Unique alignment design ensures proper disk orientation into HLR and HLR-TQ
- 3-dimensional stainless steel tag permanently attached and engraved with complete disk specifications

### OPTIONAL ACCESSORIES

- Liner** A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media.
- Sensor** BI Series Burst Indicator Sensor
- Test** Factory tested to 100% of the low end of the tolerance to insure no disks will burst low
- Holder** Available in Insert Type and Pre-torqued Holder Configuration with HLR and HLR-TQ models



LD Series disk mounts into HLR Series disk holder (refer to HLR Series data sheet)

# LD Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure	Maximum Burst Pressure
1"	30	285
25 mm	2.069	19.65
1.5"	14	285
40 mm	0.966	19.65
2"	10	285
50 mm	0.69	19.65
2.5"	8	285
65 mm	0.552	19.65
3"	7	285
80 mm	0.483	19.65
4"	6	285
100 mm	0.414	19.65
5"	6	260
125 mm	0.414	17.926
6"	6	230
150 mm	0.414	15.857
8"	5	200
200 mm	0.345	13.789
10"	2	175
250 mm	0.138	12.065
Max. Temp.	500°F (260°C)	

Disk Size	Minimum Burst Pressure	Maximum Burst Pressure
12"	2	150
300 mm	0.138	10.342
14"	1	120
350 mm	0.069	8.273
16"	1	100
400 mm	0.069	6.894
18"	1	80
450 mm	0.069	5.515
20"	1	70
500 mm	0.069	4.826
24"	1	60
600 mm	0.069	4.136
26"	1	55
650 mm	0.069	3.792
28"	1	50
700 mm	0.069	3.447
30"	1	50
750 mm	0.069	3.447
32"	1	50
800 mm	0.069	3.447
Max. Temp.	500°F (260°C)	

Disk Size	Minimum Burst Pressure	Maximum Burst Pressure
34"	1	50
850 mm	0.069	3.447
36"	1	40
900 mm	0.069	2.757
38"	1	40
950 mm	0.069	2.757
40"	1	40
1000 mm	0.069	2.757
42"	1	40
1050 mm	0.069	2.757
44"	1	40
1100 mm	0.069	2.757
Max. Temp.	500°F (260°C)	

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

Standard Material of Construction:

SS316L, Hastelloy C276, Nickel 200/201, Monel 400, Inconel

Material for Seal: PTFE/FEP/PFA, SS316L, Aluminium, Hastelloy C276,

Nickel 200/201, Monel 400, Inconel



ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

Flammer - Trademark of Flammer Technologies Pvt Ltd  
Teflon - Trademark of The Chemours Company  
Inconel - Trademark of Special Metals Corporation  
Monel - Trademark of Special Metals Corporation  
Hastelloy - Trademark of Haynes International

[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
www.rupturedisc.com GST:24AAFCF7514C1Z1

Page: 2/2  
DS\_LD\_11-2024\_EN\_Rev0



## LX - HIGH PRESSURE FORWARD ACTING RUPTURE DISC

The LX Series of forward-acting rupture discs are designed for high-pressure applications. They are compatible with HLR and HLR-TQ Series disc holders, as well as threaded assemblies. The Flammer XR Series Rupture Disc features a bulged, solid metal, single-layer design with an X-shaped grooving pattern. Upon bursting, it forms a four-petaled flower-like configuration, making it ideal for high burst pressure applications.

### PERFORMANCE FEATURES

- Designed for Non-fragmentation
- Operating ratios up to 85% of the marked burst pressure
- Disk design offers high cycle life
- Suitable for liquid, gas, or two-phase applications
- Available with Zero Manufacturing Range as standard
- Withstands full vacuum
- Available in exotic materials
- Sizes from 0.1" (3 mm) through 12" (300mm)
- Burst ratings from 80 psig to 14500 psig, 5.5 bar (G) to 1000 bar (G)
- Unique alignment design ensures proper disk orientation into HLR and HLR-TQ
- 3-dimensional stainless steel tag permanently attached and engraved with complete disk specifications



### OPTIONAL ACCESSORIES

- Liner** A process side liner of PTFE / PFA Teflon / Hastelloy / Tantalum liner provides protection from corrosive media.
- Sensor** BI Series Burst Indicator Sensor
- Test** Factory tested to 100% of the low end of the tolerance to insure no disks will burst low
- Holder** Available in Insert Type and Pre-torqued Holder Configuration with HLR and HLR-TQ models



LX Series disk mounts into HLR Series disk holder (refer to HLR Series data sheet)

### SAFETY RELIEF VALVE PROTECTION

When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.

# LX Series Specifications

Minimum and Maximum Pressure Ratings - psig @ 72°F (barg @ 22°C)

Disk Size	Minimum Burst Pressure							Maximum Burst Pressure	MNFA in2 (mm2)	
	316	Inconel	Monel 400	Nickel 200/201	Hastelloy C276	Tantalum	XRS-BI			
0.1" to 1"	400	400	400	400	400	400	Same as minimum material	14510	----	
3 to 25 mm	27.579	27.579	27.579	27.579	27.579	27.579		1000	----	
1.5"	300	300	300	300	300	300		1451	1.63	
40 mm	20.68	20.68	20.68	20.68	20.68	20.68		100.042	1,051	
2", 2.5"	220	220	220	220	220	220		1451	2.78	
50, 65 mm	15.16	15.16	15.16	15.16	15.16	15.16		100.042	1,793	
3"	180	180	180	180	180	180		1016	5.69	
80 mm	12.41	12.41	12.41	12.41	12.41	12.41		70.05	3,670	
4"	150	150	150	150	150	150		872	9.51	
100 mm	10.342	10.342	10.342	10.342	10.342	10.342		60.122	6,135	
6"	100	100	100	100	100	100		872	19.46	
150 mm	6.894	6.894	6.894	6.894	6.894	6.894		60.122	12,554	
8"	30	30	30	30	30	30		725	33.28	
200 mm	2.06	2.06	2.06	2.06	2.06	2.06		50	21,470	
10"	30	30	30	30	30	30		600	50.78	
250 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	32,761	
12"	30	30	30	30	30	30		600	71.97	
300 mm	2.06	2.06	2.06	2.06	2.06	2.06		41.368	46,432	
Max. Temp.	900°F (482°C)	900°F (482°C)	800°F (427°C)	700°F (399°C)	900°F (482°C)	500°F (260°C)		400°F (204°C)		

Notes: For materials, sizes, burst ratings and temperatures not shown, contact Flammer.

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

## Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
1.63	1.63

[rupturedisc.com](http://rupturedisc.com)



Flammer Technologies Pvt. Ltd., 108, GIDC Por, Vadodara-391243, India  
 Phone: +91 958 636 3631, +91 966 458 0047 e-mail: sales@flammertech.com  
[www.rupturedisc.com](http://www.rupturedisc.com) GST:24AAFCE7514C1Z1



**FLAMMER**

**FLAMMER TECHNOLOGIES PVT LTD**

Unit 1 - 108, GIDC Industrial Estate, Por-Ramangamdi, Vadodara-391243, India

Unit 2 - 904/9, GIDC Industrial Estate, Makarpura, Vadodara-390010, India

Phone: +91 958 636 3631, +91 966 458 0047

E-mail: [sales@flammertech.com](mailto:sales@flammertech.com); [flammertech@gmail.com](mailto:flammertech@gmail.com)

[www.rupturedisc.com](http://www.rupturedisc.com)