



SRD™ and SRD-L™

Precision Circular-Scored Reverse Buckling Rupture Disk



SRD-L™ Scored Reverse Buckling Rupture Disk (Lower Burst Pressures)

SRD™ Scored Reverse Buckling Rupture Disk

The SRD and SRD-L (for lower burst pressures) are precision circular-scored reverse buckling rupture disks. When over-pressurized, the domed, solid metal, reverse buckling disks reverse and open along a pre-weakened circular score lines on the down-stream side of the disks. A hinge welded to the disk facilitates relief opening along the score line and retains the disk's central petal preventing fragmentation even at high burst pressures.

Features

- For gas or liquid service
- Designed for non-fragmentation
- Withstands full vacuum
- Suitable for operating pressure to 90% of the marked burst pressure and 95% of the minimum burst pressure (CEN ISO 4126-2 standard pending)
- Damage safety ratio 1.5. A damaged SRD and SRD-L disk will burst at or below 1.5 times its marked burst pressure
- Optimum fatigue resistance in pressure pulsating or cycling conditions
- Recommended for safety relief valve isolation
- Optional fluoropolymer/plastic liners on the process and / or down-stream side of the disk
- For installation in Types SRI-7RS, SRB-7RS, SRB-7FS, S90-7R, SPR-7R, SR-7R, and TR-Series safety heads

Burst Tolerance

Marked Burst Pressure	Burst Tolerance
≤ 40 psig (2.76 barg)	± 2 psig (0.138 barg)
> 40 psig (2.76 barg)	± 5%

Manufacturing Design Range (MDR)

The standard MDR for the SRD disk is 0%. The user's requested burst pressure will be the marked burst pressure. Optional MDR's of -5% and -10% may be selected as operating conditions permit. The MDR is applied to the minus side only of the requested burst pressure.



Activated, SRD™

SRD™ Disk Specifications Minimum / Maximum Pressure with Rating at 72°F (22°C)

Disk Size		SRD				SRD-L				Material
in	mm	psig		barg		psig		barg		
		Min	Max	Min	Max	Min	Max	Min	Max	
1	25	481	750	33.2	51.7	75	480	5.2	33.1	Tantalum, Nickel Alloy 200, Hastelloy® Alloy C-276 and 316ss, Inconel® Alloy 600, Monel® Alloy 400, and Titanium
1.5	40	421	600	29.0	41.4	75	420	5.2	29.0	
2	50	421	500	29.0	34.5	75	420	5.2	29.0	
3	80	281	500	19.4	34.5	45	280	3.1	19.4	
4	100	271	500	18.7	34.5	20	270	1.4	18.7	
6	150	101	200	7.0	13.8	20	100	1.4	7.0	
8	200	76	150	5.2	10.3	15	75	1.0	5.2	
10	250	60	100	4.1	6.89	13	60	0.9	4.1	
12	300	45	75	3.1	5.17	11	45	0.76	3.10	

The hinge attached to the disk is 316ss. Fluoropolymer liners are available at all burst pressures and may be applied to either side or both sides of a SRD or SRD-L Rupture Disk. Liners may not be available for all burst pressures shown.

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