

## SCRD-FS SERIES

### DESCRIPTION

The SCRD-FS bursting disc is specifically designed for high pressure applications. The bursting disc utilizes one of three different scoring configurations to optimize performance over a wide range of pressures.

### FEATURES AND BENEFITS

- The SCRD-FS can be used in liquid or vapor applications
- Designed to be non-fragmenting
- Can be operated as high as 95% of its rated burst pressure depending on the service conditions
- Available in a wide range of materials including 316/316L SST, Nickel 200/201, Monel® 400, Inconel® 600 and Hastelloy® C276 (other materials may be available on request)
- Damage ratio of  $\leq 1$
- Available with a burst pressure tolerance of  $\pm 5\%$  and  $\pm 10\%$

### BURST PRESSURE SPECIFICATIONS

Size		Max. temp.	Inches DN	1/2 15	3/4 20	1 25	Size		Max. temp.	Inches DN	1/2 15	3/4 20	1 25
Min/Max Burst Pressure (will not withstand full vacuum)	316/316L SST	482°C	Min	-	-	13.79	Min/Max Burst Pressure (withstand full vacuum)	316/316L SST	482°C	Min	37.92	31.03	17.24
			Max	-	-	17.24				Max	758.42	413.68	206.84
	Inconel® 600	593°C	Min	20.68	13.79	8.96		Inconel® 600	593°C	Min	24.13	20.68	10.69
			Max	24.13	20.68	10.69				Max	758.42	413.68	206.84
	Monel® 400	482°C	Min	20.68	17.24	5.17		Monel® 400	482°C	Min	24.13	20.68	12.76
			Max	24.13	20.68	12.76				Max	758.42	413.68	206.84
	Nickel 200/201	427°C	Min	17.31	13.79	4.14		Nickel 200/201	427°C	Min	20.68	17.24	5.52
			Max	20.68	13.79	5.52				Max	758.42	413.68	206.84
	Hastelloy® C276	482°C	Min	42.75	35.92	27.58		Hastelloy® C276	482°C	Min	68.95	51.71	48.26
			Max	68.95	51.71	48.26				Max	758.42	413.68	206.84
	Tantalum	260°C	Min	17.24	13.79	6.89		Tantalum	260°C	Min	24.82	16.89	10.34
			Max	24.82	16.89	10.34				Max	68.95	57.43	51.71
	Aluminum 1100 <sup>1</sup>	121°C	Min	3.10	2.76	2.34		Aluminum 1100 <sup>1</sup>	121°C	Min	6.21	5.52	4.83
			Max	6.21	5.52	4.83				Max	31.03	25.86	23.30
	Silver <sup>1</sup>	121°C	Min	6.89	6.62	4.14		Silver <sup>1</sup>	121°C	Min	12.76	8.62	5.17
			Max	12.76	8.62	5.17				Max	31.03	25.86	23.30

(1) Max Operating ratio 85%.

Notes:

- High pressures and larger sizes are available – consult Fike.
- SCRD-FS is available with UD certification in certain ½ inch specifications. Please consult factory for more information.

## PERFORMANCE TOLERANCES <sup>1</sup>

Burst Pressure in barg at 22°C	Performance Tolerance at 22°C
≤ 1.5	± 0.15 barg
1.5 < burst pressure < 2.76	stand. ± 10% / red. ± 0.15 barg
≥ 2.76	stand. ± 10% / red. ± 5%







(1) Consult Fike for possibility to reduce tolerances.

Performance tolerance as specified by ISO/EN is a total tolerance which includes both manufacturing and bursting tolerance.

As per ISO/EN the bursting discs can be marked with:

- Specified burst pressure with a performance tolerance (in % or a value)  
E.g.: 10 barg at 22°C ± 10% (± 1 barg).
- Maximum and minimum burst pressure.  
E.g.: Max 11 barg at 22°C - min 9 barg at 22°C

On request bursting discs can be marked as per ASME code section VIII with the average burst test result and the bursting tolerance of ± 5% for burst pressures ≥ 2.76 barg. (0.15 barg for burst pressures < 2.76 barg).

Performance Attributes			Process Media		Holders
Operating Ratio	Non-Fragmenting	Vacuum Resistance	Vapour / Gas	Liquid	Screw Type
					
95%	Yes	Yes	Yes	Yes	Yes