



## DATA SHEET

### REVERSE BULGED SCORED TYPE SRL



#### DESCRIPTION

The Fike SRL bursting discs are reverse bulged, perimeter scored. The concept of reverse bulged means that the disc is installed with the crown in the direction of the process side. Once set pressure is achieved, the crown of the disc is reversed from the inlet side of the assembly to the outlet side. The pre-weakened perimeter scoreline facilitates the full opening of the disc (without the use of knifeblades).

The SRL discs are the ideal choice for high-performance characteristics at low burst pressures; they are available in a wide range of materials, which makes them perfect for safety relief valve isolation.



#### APPROVALS:

- CE
- UD

#### FEATURES AND BENEFITS

- All round process media applications
- Fugitive emission reduction
- Reduced torque sensitivity
- Extended service life
- High operating ratio
- Non-fragmenting
- Full-vacuum resistant
- Unique 'Contour Modified'™ design
- DiscLoc™ locator
- Three-dimension tag
- Can be used in double disc configurations



## SPECIFICATIONS

<b>Type of Disc</b>	SRL					
<b>Action</b>	Reverse Bulged <sup>1</sup>					
<b>Sizes <sup>2</sup></b>	DN25 – DN200 / 1" – 8"					
<b>Disc Material <sup>3</sup></b>	1.4401 / 1.4404 (316 / 316L SST)	Nickel 200 / 201	Monel® 400	Inconel® 600	Hastelloy® C276	Tantalum
<b>Max. Operating Temperature</b>	482°C	427°C	482°C	593°C	482°C	260°C
<b>Protective Coating / Lining <sup>4</sup></b>	Yes					
<b>Ratio of Operating Pressure to Minimum Burst Pressure</b>	95%					
<b>Cycling Duty</b>	R	R	R	R	R	R
<b>Pulsating Duty (light)</b>	R	R	R	R	R	R
<b>Pulsating Duty (heavy)</b>	R	R	R	R	R	R
<b>Full or Partial Vacuum <sup>5</sup></b>	R	R	R	R	R	R
<b>Polymerisation Process</b>	NR	NR	NR	NR	NR	NR
<b>Hydraulic Service</b>	R	R	R	R	R	R
<b>Non-Fragmenting</b>	R	R	R	R	R	R
<b>Seat Configuration</b>	SRL Flat					
<b>O-ring Seal for Reduced Fugitive Emission</b>	Viton (optional)					
<b>Use in Flanged Holders – Type BT</b>	Yes					
<b>Use in Flanged Pretorqueable Holders – Type TQ</b>	Yes					
<b>Use in Union Type Holders – Type UT</b>	No					
<b>Use in Screw Type Holders – Type ST</b>	No					

R = RECOMMENDED NR = NOT RECOMMENDED

- (1) Low damage ratio: if damaged during normal installation the bursting disc will open at least than 1.5 times the nominal burst pressure.  
 (2) Consult Fike for discs larger than DN200 (8").  
 (3) Consult Fike for other materials.  
 (4) Maximum temperature for various coatings: Urethane Acrylic 65°C, Urethane 120°C, Fluoropolymer 230°C.  
 (5) For burst pressure less than 1 barg: consult Fike.



## BURST PRESSURES IN BARG AT 22°C

Size		DN	25	40	50	80	100	150	200
		ANSI	1"	1 ½"	2"	3"	4"	6"	8"
Burst Pressure (barg)	1.4401 / 1.4404 (316 / 316L SST)	MIN	3.45	3.45	1.72	1.52	1.38	1.24	1.17
		MAX	18.97	18.97	15.86	13.10	12.41	10.34	9.35
	Nickel 200 / 201	MIN	2.07	2.07	1.24	1.03	0.83	0.69	0.69
		MAX	5.86	5.86	5.17	4.14	3.45	3.45	4.83
	Monel® 400	MIN	2.07	2.07	1.24	1.03	0.83	0.69	0.69
		MAX	12.76	12.76	11.03	9.66	9.66	8.62	7.59
	Inconel® 60	MIN	3.45	3.45	1.72	1.52	1.38	1.24	1.17
		MAX	10.69	10.69	12.41	10.34	10.34	10.34	8.97
	Hastelloy® C276	MIN	4.14	4.14	3.10	2.76	2.41	2.21	2.07
		MAX	22.07	22.07	18.28	13.79	11.03	7.93	7.93
	Tantalum	MIN	2.07	2.07	1.72	1.03	0.83	0.69	0.69
		MAX	12.76	12.76	10.34	9.65	7.93	6.90	5.52

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

Burst Pressure in barg at 22°C	Performance Tolerance at 22°C
≤ 1.50	± 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		Bursting Disc Holders	
Operating Ratio	Non-fragmenting	Vacuum Resistance	Liquid	Vapour / Gas	Bolted Type	Pretorqueable
						
95%	Yes	Yes <sup>1</sup>	Yes	Yes	Yes	Yes

(1) Consult Fike if full vacuum is required and specified burst pressure is below 1 barg.