 Hrabinská 498/19, 737 01  
Český Těšín, Czechy

 +420 603 933 363

 email: [office@valwo.eu](mailto:office@valwo.eu)

 [www.valwo.eu](http://www.valwo.eu)

**SRL**  
RUPTURE DISC

# SRL

## RUPTURE DISC

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The Fike SRL rupture disc is reverse-bulged and perimeter-scored to facilitate opening without knife-blades. It is ideal for such demanding applications as the isolation of pressure relief valves. Sophisticated finite element analysis (FEA) techniques were used to develop the SRL's Contour Modified™ design.

### PRESSURE RELIEF VALVE APPLICATION

When SRL discs are used to isolate pressure relief valves, a combination capacity factor of 0.9 may be used. Higher combination capacity factors may be established by testing and certifying in accordance with ASME Code, Section VIII, Division 1. See Fike Technical Bulletin TB8103 for more information.



Rupture disc - SRL

## FEATURES AND BENEFITS

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- SRL rupture discs can be used in a wide variety of applications including liquid, vapor and two phase media flow.
- SRL can operate up to 90% of its marked burst pressure for burst pressures over 40 PSIG (2.76 BARG), and up to 90% of the minimum of the burst tolerance at 40 PSIG (2.76 BARG) and below.
- SRL will withstand full vacuum without the aid of a vacuum support (see performance attributes).
- If damaged during normal installation, the rupture disc will open at less than 1.5 times the stamped burst pressure.
- SRL discs perform reliably even under less-than-ideal bolt loading conditions due to their special seating configuration.
- The perimeter score configuration, along with the integral ring, control its opening and enable the disc to rupture without fragmentation.
- The single hinge design helps achieve low burst pressure and full opening upon rupture.
- The DiscLoc™ locator tab prevents incorrect, inverted installation in the holder. Prominent flow arrows indicate the process flow direction during venting.

### Accessories and holders

The SRL uses the XL and XLO (low profile) series of rupture disc holders. These holders are available in a variety of materials and configurations. See Insert Type Holder data sheet R.1.05.01 or TQ Series Pretorqueable Holders data sheet R.1.45.01 for complete specifications. Can be used in Double Disc holder assembly (refer to data sheet R.1.51.01).

Note: 1.5 IN SRL rupture disc requires 1.5 IN SRL Holder.

### Approvals

- ASME
- CE Marked

### Options

- Available with fluoropolymer liner with a maximum temp. of 450°F (232°C).
- Polyurethane 250°F (121°C) and Teflon® 450°F (232°C) protective coatings also available.
- Standard O-rings are available in Viton® with a maximum operating temperature of 450°F (232°C).

## MINIMUM / MAXIMUM BURST PRESSURE (BP) in psig (barg) @ 72°F (22°C)

| IN  | DN  | 316/316L SST            |                | Inconel 400 ® 600         |                | Monel® 400               |                |
|-----|-----|-------------------------|----------------|---------------------------|----------------|--------------------------|----------------|
|     |     | Max Temp: 900°F (482°C) |                | Max. Temp: 1100°F (593°C) |                | Max. Temp: 900°F (482°C) |                |
|     |     | Min. BP                 | Max. BP        | Min. BP                   | Max. BP        | Min. BP                  | Max. BP        |
| 1   | 25  | 50<br>(3.45)            | 275<br>(18.97) | 50<br>(3.45)              | 155<br>(10.69) | 30<br>(2.07)             | 185<br>(12.76) |
| 1.5 | 40  | 50<br>(3.45)            | 275<br>(18.97) | 50<br>(3.45)              | 155<br>(10.69) | 30<br>(2.07)             | 185<br>(12.76) |
| 2   | 50  | 25 (1.72)               | 230<br>(15.86) | 25 (1.72)                 | 180<br>(12.41) | 18<br>(1.24)             | 160<br>(11.03) |
| 3   | 80  | 22 (1.52)               | 190<br>(13.10) | 22 (1.52)                 | 155<br>(10.69) | 15<br>(1.03)             | 140<br>(9.66)  |
| 4   | 100 | 20<br>(1.38)            | 180 (12.41)    | 20<br>(1.38)              | 155<br>(10.69) | 12<br>(.83)              | 140<br>(9.66)  |
| 6   | 150 | 18 (1.24)               | 150<br>(10.34) | 18 (1.24)                 | 155<br>(10.69) | 10<br>(.69)              | 125<br>(8.62)  |
| 8   | 200 | 17 (1.17)               | 135<br>(9.35)  | 17 (1.17)                 | 130<br>(8.97)  | 10<br>(.69)              | 110<br>(7.59)  |

| IN  | DN  | Nickel 200/201          |              | Hastelloy® C276         |                | Tantalum                |                |
|-----|-----|-------------------------|--------------|-------------------------|----------------|-------------------------|----------------|
|     |     | Max Temp: 800°F (427°C) |              | Max Temp: 900°F (482°C) |                | Max Temp: 500°F (260°C) |                |
|     |     | Min. BP                 | Max. BP      | Min. BP                 | Max. BP        | Min. BP                 | Max. BP        |
| 1   | 25  | 30<br>(2.07)            | 85<br>(5.86) | 60<br>(4.14)            | 320<br>(22.07) | 30<br>(2.07)            | 185<br>(12.76) |
| 1.5 | 40  | 30<br>(2.07)            | 85<br>(5.86) | 60<br>(4.14)            | 320<br>(22.07) | 30<br>(2.07)            | 185<br>(12.76) |
| 2   | 50  | 18<br>(1.24)            | 75<br>(5.17) | 45<br>(3.10)            | 265<br>(18.28) | 18<br>(1.24)            | 150<br>(10.34) |
| 3   | 80  | 15<br>(1.03)            | 60<br>(4.14) | 40<br>(2.76)            | 200<br>(13.79) | 15<br>(1.03)            | 140<br>(9.65)  |
| 4   | 100 | 12<br>(.83)             | 50<br>(3.45) | 35<br>(2.41)            | 160<br>(11.03) | 12<br>(.83)             | 115<br>(7.93)  |
| 6   | 150 | 10<br>(.69)             | 50<br>(3.45) | 32<br>(2.21)            | 115<br>(7.93)  | 10<br>(.69)             | 100<br>(6.90)  |
| 8   | 200 | 10<br>(.69)             | 70<br>(4.83) | 30<br>(2.07)            | 115<br>(7.93)  | 10<br>(.69)             | 80<br>(5.52)   |

Note: 1.5" SRL with Fluoropolymer liner is not available with ASME UD certification.








## AVAILABLE MANUFACTURING RANGES

| Available Manufacturing Ranges | <20 PSIG<br>(1.38 BARG) | 20 to 40 PSIG<br>(1.38-2.76 BARG) | Greater than 40<br>PSIG (2.76 BARG) |
|--------------------------------|-------------------------|-----------------------------------|-------------------------------------|
| +0/-10%                        | No                      | Standard                          | Standard                            |
| +0/-5%                         | No                      | No                                | Yes                                 |
| +0/-2 PSIG                     | Standard                | No                                | No                                  |
| Zero                           | Yes                     | Yes                               | Yes                                 |

## BURST/PERFORMANCE TOLERANCE

| Marked Burst Pressure |       | Tolerance |       |
|-----------------------|-------|-----------|-------|
| psig                  | barg  | psi       | bar   |
| ≤40                   | ≤2.76 | ±2        | ±0.14 |
| >40                   | >2.76 | ±5%       | ±5%   |

## HOW TO SPECIFY

| Performance Attributes  |   |   | Process Media   |   | Rupture Disc Holder   |   |
|---|---|---|---|---|---|---|
| Operating Ratio   | Non-Fragmenting   | Vacuum Resistant  | Liquid  | Vapor / Gas   | Bolted/Type   | Pre-Torque  |
|  |  |  |  |  |  |  |
| 90%   | Yes   | Yes*  | Yes   | Yes   | Yes   | Yes   |

\* Consult factory if full vacuum is required and specified burst pressure is below 15 PSIG (1.03 BARG).

## HOW TO SPECIFY

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|                      |                      |
|----------------------|----------------------|
| Previous Lot Number: |                      |
| OR                   |                      |
| Size                 |                      |
| Flange Rating:       |                      |
| Burst Pressure       | @ (Temperature)      |
| Seal Material        |                      |
| Ring Material        |                      |
| Manufacturing Rang   | Std:          Other: |
| Coatings             |                      |
| Optional O-Rings     | Yes/No          Qty: |
| Certifications       | ASME / CE            |