

SCRD-FSR SERIES

DESCRIPTION

Extremely versatile and adaptable to a large variety of conditions, the SCRDFSR rupture disc is the high pressure solution in either liquid or vapor applications. The SCRDFSR rupture disc is well suited for minimizing leakage and corrosion in pressure relief valves, isolating them from process contaminants.

The SCRDFSR rupture disc is specifically designed for high pressure applications. The ring attached to the perimeter of the disc interlocks with a groove in the holder to prevent disc slippage at high operating and rupture pressures



SCRDFSR Rupture Disc

FEATURES AND BENEFITS

- The SCRDFSR can be used in liquid or vapor applications.
- Can be operated as high as 90% of its rated burst pressure depending on the service conditions.
- Withstands full vacuum in all pressure ratings.
- The forward acting cross-scored design can be manufactured to be non-fragmenting. (Specify when ordering.)
- 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). 316 SST is the standard material for the FSR ring.
- Damage ratio of ≤ 1
- Available with a zero manufacturing range.

PRESSURE RELIEF VALVE APPLICATION

The SCRDFSR is ideal for pressure relief valve isolation when non-fragmenting is specified.

When SCRDFSR 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.

ACCESSORIES AND HOLDERS

FSR Holder

The SCRDFSR rupture disc is mounted in an unique FSR insert style holder that fits between standard pipe flanges. Carbon steel, 316/316L SST and other materials are available. Serrated, RTJ, tongue and groove, and other flange facings are available. The FSR disc is commonly used with the Viscous Tee. For more information on the Viscous Tee, please see data sheet R.1.10.01.

OPTIONS

- Available with Teflon® liner with a maximum temperature of 450°F (232°C)
- Polyurethane 250°F (121°C) and Teflon 450°F (232°C) protective coatings also available

Form No. R.1.20.01-4

MINIMUM/MAXIMUM BURST PRESSURE IN PSIG (BARG) @ 72°F (22°C)

In	DN	316/316L SST	Inconel® 600	Monel® 400	Nickel 200/201	Hastelloy® C276	Max BP Non-Fragmenting ¹	Max BP
		Max Temp: 900°F (482°C)	Max Temp: 1100°F (593°C)	Max Temp: 900°F (482°C)	Max Temp: 800°F (427°C)	Max Temp: 900°F (482°C)		
		Min BP						
1	25	2250 (155.13)	2250 (155.13)	2250 (155.13)	2250 (155.13)	2250 (155.13)	3500 (241.32)	6000 (413.69)
1.5	40	1800 (124.10)	1800 (124.10)	1800 (124.10)	1800 (124.10)	1800 (124.10)	2750 (189.61)	6000 (413.69)
2	50	1600 (110.31)	1600 (110.31)	1600 (110.31)	1600 (110.31)	1600 (110.31)	2250 (155.13)	6000 (413.69)
3	80	1300 (89.63)	1300 (89.63)	1300 (89.63)	1300 (89.63)	1300 (89.63)	1750 (120.66)	6000 (413.69)
4	100	1100 (75.84)	1100 (75.84)	1100 (75.84)	1100 (75.84)	1100 (75.84)	1300 (89.63)	6000 (413.69)
6	150	500 (34.47)	500 (34.47)	500 (34.47)	500 (34.47)	500 (34.47)	1000 (68.95)	6000 (413.69)
8	200	450 (31.03)	450 (31.03)	450 (31.03)	450 (31.03)		750 (51.71)	6000 (413.69)
10	250	400 (27.58)	400 (27.58)	400 (27.58)	400 (27.58)		600 (41.37)	1480 (102.04)
12	300	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)		500 (34.47)	1000 (68.95)
14	350	300 (20.68)	300 (20.68)	300 (20.68)	300 (20.68)		400 (27.58)	970 (66.88)
16	400	250 (17.24)	250 (17.24)	250 (17.24)	250 (17.24)		350 (24.13)	800 (55.16)
18	450	200 (13.79)	200 (13.79)	200 (13.79)	200 (13.79)		300 (20.68)	700 (48.26)
20	500	150 (10.34)	150 (10.34)	150 (10.34)	150 (10.34)		250 (17.24)	600 (41.37)
24	600	115 (7.93)	110 (7.58)	100 (6.89)	100 (6.89)		150 (10.34)	540 (37.23)

1. Consult Fike for higher burst pressures with or without fragmentation.

AVAILABLE MANUFACTURING RANGES








Standard Manufacturing Range
+0% / -10%

AVAILABLE BURST/PERFORMANCE TOLERANCE

Standard Burst Tolerance
±5%

HOW TO SPECIFY

Previous Lot Number:	
OR	
Size:	
Burst Pressure:	@ (Temperature)
Seal Material:	
Fragmenting:	Yes / No
Certifications:	ASME CE

Performance Attributes				Process Media		Rupture Disc Holders
Operating Ratio	Non-Fragmenting	Vacuum Resistant	Pulsating/Cyclic	Liquid	Vapor/Gas	Bolted/Type
						
90%	yes	yes	yes	yes	yes	yes

CERTIFICATIONS



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