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safety for industry

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SCRD
RUPTURE DISC

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

The SCRD-FSR 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.

PRESSURE RELIEF VALVE APPLICATION

The SCRD-FSR is ideal for pressure relief valve isolation when non-fragmenting is specified. When SCRD-FSR 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.

Rupture disc - SCRD

FEATURES AND BENEFITS

- The SCRD-FSR 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.

Accessories and holders	Options	Approvals
FSR Holder The SCRD-FSR 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.	- Polyurethane 250°F (121°C) and Teflon® 450°F (232°C) protective coatings also available.	- ASME - CE Marked

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

		316/316 L 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)		
IN	DN	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	Standard Burst Tolerance
+0% / -10%	±5%

Other Manufacturing Ranges Available:
- Zero.
- Reduced.
- Performance Tolerance (±10%, ±5%.
- Special Min/Max.

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	Liquid	Vapor/Gas	Bolted/Type
					
90%	yes	yes	yes	yes	yes