

SCRD-V CROSS SCORED SERIES

DESCRIPTION

The SCRD-V FS CS rupture disc covers a wide range of over pressure protection applications. The rupture disc utilizes a flat seat (FS), cross scored (CS) configuration that optimizes performance over a wide burst pressure range.

FEATURES AND BENEFITS

- The SCRD-V FS CS can be used in liquid or vapor applications
- Can be designed to be non-fragmenting
- Utilizes the Poly-SD holder family (refer to data sheet R.1.32.01 and R.1.45.01)
- Can be used in Double Disc holder assembly (refer to data sheet R.1.12.01)
- Can be operated as high as 90% of its rated burst pressure depending on the service conditions
- Available in 316/316L SST, Nickel 200/201 and Inconel® 600 (other materials may be available on request)
- Available with a zero manufacturing range.

APPROVALS:

- ASME
- CE Marked



BURST PRESSURE SPECIFICATIONS PSIG @ 72°F (BARG @ 22°C)

Size		Minimum BP			Max. BP
IN	DN	316 SST	Inconel® 600	Nickel 200	(All)
2	50	158 (10.89)	132 (9.10)	106 (7.31)	1600 (110.32)
3	80	158 (10.89)	132 (9.10)	75 (5.17)	1300 (89.63)
4	100	133 (9.17)	106 (7.31)	67 (4.62)	1100 (75.84)
6	150	96 (6.62)	75 (5.17)	50 (3.45)	500 (34.47)
8	200	75 (5.17)	55 (3.79)	30 (2.07)	450 (31.03)
10	250	60 (4.14)	44 (3.03)	24 (1.65)	400 (27.58)
12	300	50 (3.45)	37 (2.55)	20 (1.38)	350 (24.13)
14	350	43 (2.96)	32 (2.21)	17 (1.17)	300 (20.68)
16	400	85 (5.86)	64 (4.41)	30 (2.07)	250 (17.24)
18	450	75 (5.17)	55 (3.79)	25 (1.72)	200 (13.79)
20	500	65 (4.48)	50 (3.45)	25 (1.72)	150 (10.34)
24	600	55 (3.79)	45 (3.10)	20 (1.38)	100 (6.89)

Note: For back pressure requirements higher than 1 atmosphere, consult factory.

STANDARD MANUFACTURING RANGES

Specified Rupture Pressure		Manufacturing Range % @ 72°F (22°C)
PSIG @ 72°F	BARG @ 22°C	
15 to 45.9	1.03 to 3.16	+14% to -7%
46 to 90.9	3.17 to 6.26	+12% to -6%
91 to 270.9	6.27 to 18.68	+10% to -5%
271 to 500.9	18.68 to 34.54	+8% to -4%
501+	34.55+	+6% to -3%







Other Manufacturing Ranges Available:

- Zero
- Reduced
- Performance Tolerance ($\pm 10\%$, $\pm 5\%$)
- Special Min/Max

RUPTURE TOLERANCES

Burst Pressures ≤ 40 PSIG: ± 2 PSIG
 Burst Pressures > 40 PSIG: $\pm 5\%$

Form No. R.1.36.01-1

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

HOW TO SPECIFY

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