RUPTURE DISCS

AXCES

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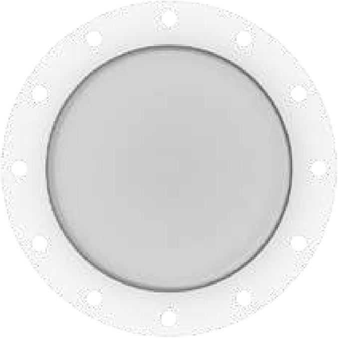

Materials of Construction (1)	Stainless Steel / Teflon / Insulation / Stainless Steel
Maximum Operation Pressure: RVD-I (3)	70% of the minimum burst pressure for nom. BP ≤ 0.1 barg 60% of the minimum burst pressure for nom. BP > 0.1 barg 60% of the minimum burst pressure for rectangular shapes
Maximum Operation Pressure: RVD-R-I (3)	80% of the minimum burst pressure for nom. BP ≤ 0.1 barg 70% of the minimum burst pressure for nom. BP > 0.1 barg 70% of the minimum burst pressure for rectangular shapes
Burst Pressure Tolerance (2)	± 15 mbarg for burst pressure ≤ 70 mbarg 25 mbarg for burst pressure > 70 mbarg and ≤ 250 mbarg 50 mbarg for burst pressure > 250 mbarg
Operating Temperature Range (4)	RVD-I -40°C to 450°C / RVD-R-I-HT -40°C to 600°C

NOTES

1. Other materials are available on request.
2. For certain sizes and burst pressures, reduced tolerances may be available, consult Axces.
3. Momentary Pressure only.
4. For higher temperatures: consult Axces.

DESCRIPTION

The RVD-I and RVD-R-I type vents are high performance explosion vents specifically used for high process temperatures, and they offer venting of explosions of industrial equipment. This explosion vent provides excellent service life for static to light pressure cycling conditions.

This type explosion vents come in 2 maximum working temperature ranges: RVD-(S)-I up to maximum 450°C and RVD-(S)-I-HT for use op to maximum 600°C.

FEATURES

- ✓ **Full Opening**
- ✓ **Certified Burst Pressure**
- ✓ **No Maintenance**
- ✓ **High Operating Ratio**
- ✓ **Suitable for Vacuum Service**

RUPTURE DISCS

Type RVD-I and RVD-R-I

DIN 2632 PN10	Relief Area	ANSI 150	Min. Burst Pressure mbarg		Max. Burst Pressure	Thickness	
			RVD-I	RVD-R-I		RVD-(S)-I	RVD-(S)-I-HT
150	0.013	6	220	415	1030	18	23
200	0.026	8	200	300	1030	18	23
250	0.045	10	140	250	760	18	23
300	0.066	12	110	200	690	18	23
350	0.080	14	100	180	690	18	23
400	0.109	16	85	150	690	18	23
500	0.176	20	50	125	690	18	23
600	0.260	24	40	100	690	18	23
700	0.410	28	35	100	690	18	23
800	0.474	32	35	100	690	18	23
900	0.600	36	35	70	690	18	23
1000	0.750	40	35	70	690	18	23

DIN 2632 PN10	Relief Area	ANSI 150	Min. Burst Pressure mbarg		Max. Burst Pressure	Thickness	
			RVD-I	RVD-R-I		RVD-(S)-I	RVD-(S)-I-HT
150	0.013	6	220	415	1030	18	23
200	0.028	8	200	310	1030	18	23
250	0.045	10	140	250	750	18	23
300	0.066	12	110	200	690	18	23
350	0.081	14	100	180	690	18	23
400	0.109	16	85	150	690	18	23
500	0.176	20	50	120	690	18	23
550	0.233	22	50	120	520	18	23
600	0.260	24	40	110	470	18	23
700	0.360	28	35	90	340	18	23
750	0.410	30	35	90	300	18	23
800	0.474	32	35	80	260	18	23
850	0.540	34	35	80	215	18	23
900	0.600	36	35	80	200	18	23
10000	0.748	40	35	70	160	18	23

Relief Area (m^2)	Nom. Size (mm)	Min. Burst Pressure mbarg		Max. Burst Pressure	Thickness	
		RVD-I	RVD-R-I		RVD-(S)-I	RVD-(S)-I-HT
0.20	500x400	100	120	500	18	23
0.25	500x500	70	120	500	18	23
0.26	470x570	90	100	500	18	23
0.30	500x600	70	120	440	18	23
0.35	500x700	50	110	380	18	23
0.39	625x625	70	100	380	18	23
0.40	500x800	50	100	320	18	23
0.45	500x900	50	100	260	18	23
0.50	500x1000	50	50	200	18	23
0.50	566x900	50	100	200	18	23
0.60	600x1000	35	50	200	18	23
0.69	625x1110	35	100	200	18	23
0.70	700x1000	35	50	200	18	23
0.80	800x1000	35	50	200	18	23
0.81	900x900	35	100	200	18	23
0.90	900x1000	35	50	200	18	23
1.00	1000x1000	35	100	200	18	23