



Type AV™ Low Pressure Rupture Disk

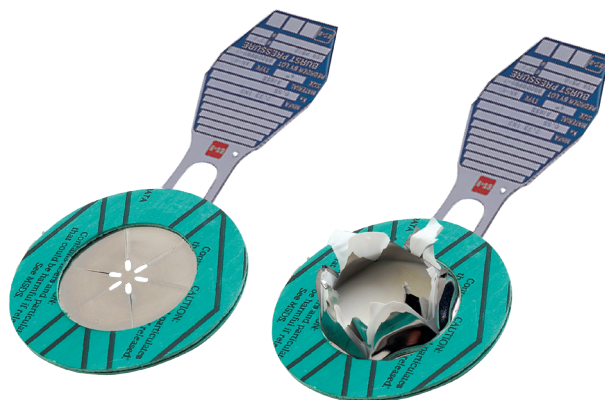
Overpressure protection for atmospheric vessels



BS&B's type AV™ disk is a low pressure rupture disk designed for direct flange installation.

Features

- Sizes 1-60 inches (25-1,500mm)
- Gaskets attached on both sides
- Low burst pressures
- Damage safety ratio < 1
- Manufacturing design range 0, -5%, -10%
- Operates up to 60% of minimum burst pressure
- Vacuum resistant to 60% of minimum burst pressure. For greater vacuum resistance use model AVV with integral non-opening vacuum support.



Standard Materials	
Gaskets	Compressed fiber, glass filled PTFE, others upon request
Top and bottom sections	Stainless steel (standard) Nickel Monel® Inconel® Hastelloy® C276 Tantalum
Seals	TEF (PFA, Dialectrix, PTFE)
Vacuum or back pressure supports	Stainless steel (standard) Nickel Monel® Inconel® Hastelloy® C276 Tantalum

Burst Tolerance

Nominal Burst Pressure	Burst Tolerance
≥ 5 psi	+/- 1 psi
≤ 20 psi	+/- 1.5 psi
> 20 psi	+/- 2 psi
≥ 40psi	+5%

*Hastelloy® is a trademark of Haynes International Inc.
Monel® and Inconel® are trademarks of Inco Alloys International, Inc*

Burst Pressure Capability

Nominal size		Stainless steel			
in	mm	psig		barg	
		min	max	min	max
1	25	10	150	0.7	10.3
1.5	40	7	150	0.5	10.3
2	50	5	150	0.3	10.3
3	80	4	150	0.3	10.3
4	100	2	150	0.1	10.3
6	150	1	100	0.1	6.7
8	200	1	100	0.1	6.7
10	250	0.6	60	0.04	4.1
12	300	0.6	60	0.04	4.1
16	400	0.6	60	0.04	4.1
18	450	0.5	60	0.03	4.1
20	500	0.5	60	0.03	4.1
24	600	0.5	60	0.03	4.1
28	700	0.5	60	0.03	4.1
30	750	0.5	60	0.03	4.1
32	800	0.35	40	0.02	2.8
36	900	0.25	40	0.02	2.8
40	1000	0.25	40	0.02	2.8
44	1100	0.25	40	0.02	2.8
48	1200	0.25	40	0.02	2.8

Contact BS&B for burst pressures for Nickel, Monel®, Inconel®, Hastelloy® C276, Tantalum. Contact BS&B for burst pressures on disk sizes 50" (1270mm) and higher.

Design Temperature Range

Minimum: -40°F (-40°C)

Maximum: 500°F (260°C) for PTFE

400°F (205°C) for TEF

PFA: -40° to 500°F (-40° to 260°C)

Dialectrix: -40° to 400°F (-40° to 205°C)

AV Rupture Disk Range

AV: two-way low burst pressure

AVV: one-way burst, vacuum resistant

AV-E: one-way, no vacuum resistance

AV-EL: two-way, clean service variant

V-AV: one-way, vacuum burst direction with 15 psi
back pressure resist

*Consult factory for burst pressure capability of AVV, AV-E,
AV-EL, V-AV*



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