



Type AV™ Low Pressure Rupture Disk

Overpressure protection for atmospheric vessels

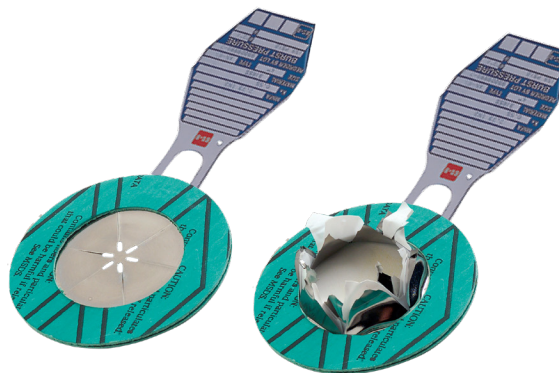


BS&B's type AV disk is a low pressure disk designed for direct flange installation (no holder required).

Features

- Sizes 1" to 72" (25mm to 1800mm)
- Same burst pressure in both directions (Type AV and AV-EL only)
- Gaskets attached to both sides
- Low burst pressure capability
- Damage safety ratio < 1
- Manufacturing design range 0, -5%, -10%
- Suitable for operating pressure up to 60% of the minimum burst pressure
- Vacuum resistant to 35% of minimum burst pressure. For greater vacuum resistance, use type AVV disk*

* Type AVV rupture disk has a non-opening vacuum support which will reduce the minimum net flow area. Consult BS&B for flow area information based on size and burst pressure



Standard Materials	
Gaskets	Compressed fiber (Klinger or Garlock), glass filled fluoropolymer
Top and Bottom Sections	316 ss, Nickel 200, alloy 400, alloy 600, Hastelloy C-276, Tantalum
Seals	Fluoropolymer (FEP, PFA, PTFE)
Vacuum or Back Pressure Support	316 ss, Nickel 200, alloy 400, alloy 600, Hastelloy C-276, Tantalum

Nominal Burst Pressure	Burst Tolerance
< 5 psig (0.345 barg)	+/- 1 psig (0.069 barg)
5 psig (0.345 barg) < 20 psig (1.38 barg)	+/- 1.5 psig (0.103 barg)
20 psig (1.38 barg) < 40 psig (2.76 barg)	+/- 2 psig (0.138 barg)
> 40 psig (2.76 barg)	+/-5%

Burst Pressure Capability

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

For sizes larger than 48" (1200mm) contact BS&B for burst pressures.

Note: Type AV disks are burst tested by BS&B using ASME/ANSI/B16-s class 150 weld neck flange dimensions. Contact BS&B for alternatives.

Burst Tolerance AV Rupture Disk Range

- AV: two-way activation, low burst pressure
- AVV: one-way (positive), vacuum resistance
- AV-E: one-way (positive), no vacuum resistance
- AV-EL: two-way, clean variant
- V-AV: one-way, vacuum burst direction

Design Temperature Range

Seal Material	Minimum	Maximum
PTFE	-100°F (-73°C)	400°F (204°C)
FEP	-454°F (-270°C)	400°F (204°C)
PFA	-320°F (-195°C)	500°F (260°C)

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