



# Type AV™ Low Pressure Rupture Disk

Overpressure protection for atmospheric vessels

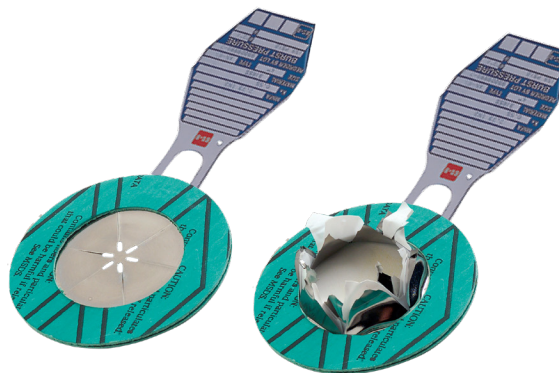


BS&B's type AV disk is a low pressure disk designed for direct flange installation (no holder required).

## 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)

### AMERICAS

#### Tulsa, OK USA

T: +1 918 622 5950  
F: +1 918 665 3904  
E: sales@bsbsystems.com

#### Houston, TX USA

T: +1 713 682 4515  
F: +1 713 682 5992  
E: sales@bsbsystems.com

#### Minneapolis, MN USA

T: +1 952 941 0146  
F: +1 952 941 0646  
E: sales@bsbipd.com

#### Edmonton, AB Canada

T: +1 780 955 2888  
F: +1 780 955 3975  
E: contacts@bsbprocess.com

#### Monterrey, Mexico

T: +011 52 81 8299 5861  
T: +011 52 81 8299 5862  
E: sales@bsbsystems.com

#### Sao Paulo, Brasil

T: +55 11 2084 4800  
F: +55 11 2021 3801  
E: sales@bsbbrasil.com

### EUROPE, MIDDLE EAST & AFRICA

#### Limerick, Ireland

T: +353 61 484700  
F: +353 61 304774  
E: sales@bsb.ie

#### Düsseldorf, Germany

T: +49 211 93 0550  
F: +49 211 398 2171  
E: info@bormann-neupertbsb.de

#### Manchester, UK

T: +44 161 955 4202  
F: +44 161 870 1086  
E: sales@bsb-systems.co.uk

#### Moscow, Russia

T: +7 495 747 5916. ext 427  
F: +7 499 133 4394  
E: sales@bsbsystems.ru

#### The Hague, The Netherlands

T: +31 20 399 9965  
E: info@bsbsystems.nl

#### Copenhagen, Denmark

T: +45 29 65 69 61  
E: info@bsbsystems.dk

#### United Arab Emirates

T +971 (0) 55 518 0314  
T +971 (0) 55 518 0916  
F +971 (0) 2 558 9961  
E sales@bsbsystems.ae

### ASIA PACIFIC

#### Singapore

T: +65 6513 9780  
F: +65 6484 3711  
E: sales@bsb.com.sg

#### Yokohama, Japan

T: +81 45 450 1271  
F: +81 45 451 3061  
E: information@bsb-systems.co.jp

#### Seoul, South Korea

T: +82 2 2636 9110  
F: +82 2 2636 9120  
E: sales@bsbsystems.kr

#### Shanghai, China

T: +86 21 6391 2299  
F: +86 21 6391 2117  
E: sales@bsbsystems.com

#### Chennai, India

T: +91 44 2450 4200  
F: +91 44 2450 1056  
E: sales@bsbsystems.com

BSBSystems.com | BSB.ie

Visit our website for the most complete, up-to-date information

*Products, specifications and all data in this literature are subject to change without notice. Questions regarding product selection and specifications for specific applications should be directed to BS&B. All sales are subject to the BS&B companies' standard terms and conditions of sale. Nothing herein should be construed as a warranty of merchantability or fitness for a particular purpose.*