



RUPTURE DISK TYPE AV for ATMOSPHERIC VESSELS

CATALOG
77-8001

SECTION C-8

A unique design Rupture Disk specifically for protection of atmospheric vessels and for isolating equipment, such as relief valves from exhaust piping, manifolds, etc.



Features

- 1 Available in sizes 2" (50mm) to 36" (900mm). The disks are designed to fit between ANSI (MSS SP44 Class 150 for 30"-36"), DIN or JIS flanges. Contact BS&B for other requirements.
- 2 Non-asbestos gaskets attached on both sides. Teflon gaskets available as an option.
- 3 Cannot be installed incorrectly – both sides are identical.
- 4 Low burst pressures available, 1 to 25 psi (See Selection Chart).
- 5 Bursts at equal pressure in either direction (1:1 Ratio).
- 6 Standard materials are Alloy 200 (Nickel), Alloy 400 (Monel), Alloy 600 (Inconel), 316 Stainless Steel, and Alloy C-276 (Hastelloy) top sections with a Teflon seal. Other materials are available on special order. Consult factory for application data.
- 7 Standard marking is the *burst range*. Example: 1.5 to 3.5. All tolerances and manufacturing ranges are within the *burst range*.
- 8 Disks are rated at 72°F (22°C) as a standard. Ratings at other than 72°F (22°C) are available upon request.
- 9 To achieve maximum disk service life, operating pressures may be up to 60% of rated pressure.

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

Teflon® is generally used, other appropriate fluorochemicals may be supplied. Teflon® is a registered trade mark of Dupont.



SELECTION DATA

BS&B SAFETY SYSTEMS, L.L.C.
BS&B SAFETY SYSTEMS LTD.

TABLE 1

Column 1	Column 2	Column 3
MAXIMUM OPERATING PRESSURE, PSIG	DISK* BURST RANGE, PSI (MIN-MAX)	DISK SIZES AVAILABLE, INCH
0.6	1 to 3	6 thru 36
0.75	1.25 to 3.25	6 thru 36
0.9	1.5 to 3.5	6 thru 36
1.2	2.0 to 4.0	4 thru 36
1.8	3 to 5	4 thru 36
2.4	4 to 6.5	3 thru 36
3.0	5 to 7.5	2 thru 36
3.6	6 to 8.5	2 thru 36
4.2	7 to 9.5	2 thru 36
4.8	8 to 10.5	2 thru 36
5.4	9 to 11.5	2 thru 36
6.0	10 to 12.5	2 thru 36
6.6	11 to 13.5	2 thru 36
7.2	12 to 14.5	2 thru 36

*Burst Ranges Available thru 25 psi

TABLE 2

Material Availability	
DISK SIZES, INCH	
Alloy C-276 (Hastelloy)	2 thru 8
Alloy 200 (Nickel)	2 thru 30
Alloy 400 (Monel)	2 thru 30
Alloy 600 (Inconel)	2 thru 30
316 SS	2 thru 36

Temperature Limits:
Minimum: -40°F (-40°C)
Maximum: 500°F (260°C)

NOTE:
For operating pressures and sizes other than listed in Tables 1 and 2, select other BS&B standard rupture disks or consult factory with application data.

HOW TO SELECT:

- STEP 1 Determine your maximum operating pressure. Go to correct figure in Column 1.
- STEP 2 Column 2 gives the *Minimum Burst Range* for the operating pressure selected. Select the highest *Burst Range* above this figure for maximum service life.
- STEP 3 Select the disk size from Column 3. If you want a smaller disk than shown, then go to a higher *Burst Range*.
- STEP 4 Be sure the back pressure or vacuum does not exceed the Maximum Operating Pressure selected.
- STEP 5 *To Order, Specify:*
 - Disk Type
 - Burst Range
 - Temperature
 - Size
 - Material
 - Flange rating

EXAMPLE: Type AV, Burst Range 1.25 to 3.25 at 72°F, 10 inch, Alloy 200 (Nickel), 150 ANSI Slip-on

NOTE: 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, Attn. Customer Service Dept.