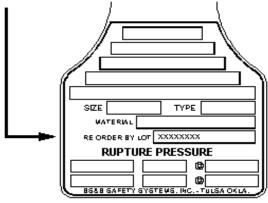


AV RUPTURE DISK

BULLETIN 77-80011

INSTALLATION INSTRUCTIONS

- THE DISK IS DESIGNED SPECIFICALLY
 FOR THE PROTECTION OF ATMOSPHERIC VESSELS AND FOR ISOLATING
 RELIEF VALVES FROM BOTH MANIFOLD
 AND ATMOSPHERIC CONTAMINATION
- ORDER REPLACEMENT DISKS BY LOT NUMBER



Select proper location for the AV Disk 1. CAUTION - VENT TO SAFE AREA

Do not locate where personnel or property could be exposed to the product being discharged through the disk. Any equipment or property in the vicinity of discharge could be damaged.

- Consider recoil or "kickback". Recoil is the force the system will experience upon rupture. Recoil is approximately twice the disk rating (psig) times the relief area (in²). Provide adequate support for piping and connections. If the discharge is free-vented, a baffle plate mounted with extra length studs will minimize recoil.
- The AV Disk should not be subject to excessive structural bending stresses.

Before you install the Disk

1. Inspect companion flanges

Clean seating surfaces of both flanges before installing the disk.

2. Inspect the rupture disk

Handle Disk carefully - it is a precision instrument. Examine both sides of the disk for any damage.

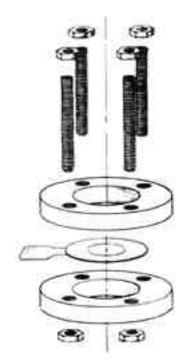
3. Examination of disk

Examine for any indentations or severe scratches. A damaged disk must not be installed as it may result in premature failure.



Installing the AV Disk Follow the steps below for proper installation

- Insert AV Disk centrally between companion flanges in order that name plate giving disk specification may be read easily. (Note reverse installation will give identical burst pressure).
- 2. For type AVV disk supplied with a vacuum support the disk must be installed with the vacuum support towards the system pressure or medium.
- Install Studs and Nuts:
 Evenly torque down studs and nuts per the following table.



NOTE: Corrosion and service conditions may affect disk life thus requiring periodic change.

Companion Flange Torque ANSI Ratings

DISK SIZE		COMPANON FLANGE ANSI RATING	TORQUE	
IN	MM		NM	FT-LBS
2	50	150	57	42
		300	57	42
3	80	150	57	42
		300	102	75
4	100	150	57	42
		300	102	75
6	150	150	102	75
		300	102	75
8	200	150	102	75
		300	165	122
10	250	150	165	122
		300	248	183
12	300	150	165	122
		300	369	272
14	350	150	248	183
		300	369	272
16	400	150	248	183
		300	523	386
18	450	150	369	272
		300	523	386
20	500	150	369	272
		300	523	386
24	600	150	949	700
		300	523	386

Companion Flange Torque DIN/AFNOR/UNI Ratings

DISK SIZE		COMPANON FLANGE DIN/AFNOR/UNI RATING	TORQUE	
IN	MM		NM	FT-LBS
2	50	10/16/25/40	62	46
3	80	10/16/25/40	62	46
4	100	10/16	62	46
4	100	25/40	122	90
6	150	10/16	122	90
6		25/40	210	155
	200	10	122	90
8		16	122	90
		25	210	155
		40	312	230
		10	122	90
10	250	16	210	155
10	250	25	312	230
		40	423	312
		10	122	90
40	200	16	210	155
12	300	25	312	230
		40	423	312
		10	122	90
14	350	16	210	155
		25	423	312
		40	580	428
		10	210	155
16	400	16	312	230
16		25	580	428
		40	650	480
	450	10	210	155
10		16	312	230
18		25	N/A	N/A
		40	650	480
20	500	10	210	155
		16	423	312
		25	580	428
		40	813	600
	600	10	312	230
24		16	580	428
24		25	650	480
		40	813	600
30	800	10	423	312
		16	650	480
		25	813	600
		40	881	650

WARRANTY

"THE EXPRESSED WARRANTIES HEREINAFTER GIVEN BY BS&B SAFETY SYSTEMS, INC. ARE EXCLUSIVE AND IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

BS&B Safety Systems, Inc. warrants its products against defective workmanship and material under normal and proper use in service for twelve (12) months of the date of shipment when owned by the original purchaser and only when subjected to normal operating conditions outlined by purchaser when order is placed: except that, rupture disks are not guaranteed except to burst within specified pressure ranges at temperatures specified at time of sale.

Where the products involved include a rupture disk inside a rupture disk holder, each must be of the proper type to be utilized with its mating part as otherwise recommended by and manufactured by BS&B. Substitution of either a rupture disk or rupture disk holder not manufactured by BS&B voids the aforementioned warranty and BS&B SPECIFICALLY DISCLAIMS ANYAND ALLLIABILITYFOR DAMAGES, EITHER DIRECT OR INDIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING FROM THE USE OF ASSEMBLIES NOT WHOLLY COMPRISED OF BS&B MANUFACTURED PRODUCTS.

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There is no guarantee against corrosion or erosion caused by acids, chemicals, their fumes, or the like.



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