



BS&B SAFETY SYSTEMS, INC.
BS&B SAFETY SYSTEMS LTD.

RUPTURE DISKS FOR UNION AND SCREW TYPE INSTALLATION INSTRUCTIONS

**BULLETIN
77-7001I**

CAUTION - Vent to safe area.

Before You Install The Rupture Disk:

1. Inspect Connections

Clean seating surfaces of both Safety Head connections before installing rupture disk. Pits, dirt, or grit can damage rupture disk or cause leakage. If surfaces are rough, polish with a fine emery cloth. **DO NOT MACHINE!** Dimensions of the Safety Head seating surfaces are critical. **DO NOT ALTER THEM.**

2. Inspect Rupture Disk

Handle rupture disk carefully - it is a precision instrument. Examine seating and prebulged surfaces before installing. **DO NOT INSTALL THE DISK IF THERE IS ANY DAMAGE IN THE DOME.** A damaged disk is any disk with visible nicks, dents or scratches that show through. It must not be installed. Installation of a damaged disk may result in premature rupture of the disk. Vacuum supports, when specified, are attached to concave side of disk.

Union and Screw Type Installation Instructions

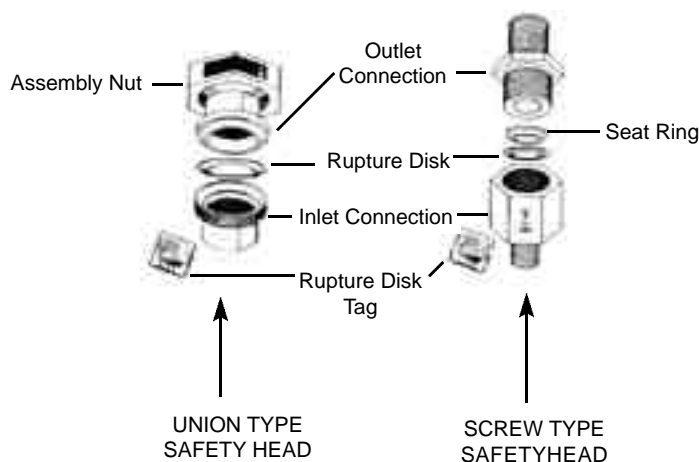
1. Place inlet connection in position as shown, with FLOW ARROW UP. (Flow arrow on Union Type Safety Head is on the assembly nut.)
2. Place NEW, UNDAMAGED rupture disk on inlet connection with dome facing up. **SYSTEM PRESSURE MUST BE AGAINST CONCAVE SIDE OF DISK.**
3. Carefully place outlet connection in position as shown. With the Screw Type Safety Head, insert seat ring on top of rupture disk before placing outlet connection in position.
4. For Union Type Safety Head, slip assembly nut over outlet connection as shown. Torque to the values in Table 1. For Screw-Type Safety Head, screw outlet connection to inlet connect as shown.
5. Insert the Safety Head in the pressure system. **MAKE SURE FLOW ARROW ON UNIT POINTS THE DIRECTION YOU WANT FLOW TO OCCUR UPON RUPTURE.** System pressure must be against concave side of disk.
6. Affix rupture disk tag to Safety Head Assembly after installation to identify disk in service.

**TORQUE TABLE 1
Type B or D Series in Union or Screw Type
Safety Head Assemblies
Torque Ft-Lbs**

SIZE	MAXIMUM RATING	DISK PRESSURE PSID						
		0-500	501 - 1000	1001 - 2000	2001 - 3000	3001 - 6000	6001 - 10,000	OVER 10,001
IN	LBS.							
7/16" (F)	20,000	-	-	-	-	-	150	200
1/2" (A)	3,000	50	50	50	50	-	-	-
	6,000	50	50	50	80	120	-	-
1/2" (F)	10,000	50	50	80	80	120	120	-
11/16" (F)	1,000	50	50	-	-	-	-	-
1" (A)	1,500	100	100	150	-	-	-	-
	3,000	100	100	150	150	-	-	-
	6,000	120	120	150	175	240	-	-
1- 1/2" (A)	3,000	150	250	300	350	-	-	-
2" (A)	1,200	200	600	600	-	-	-	-

NOTES:

1. 12 inch pounds = 1 Foot Pound.
2. Torque values are based on free running and lightly oiled threads.



LIMITATION OF WARRANTIES

BS&B Safety Systems, Inc. warrants its products against defective workmanship and material under normal and proper use in service for a period of twelve (12) months from the date of shipment, when owned by the original buyer and only when subject to normal operating conditions outlined by Buyer when the order is placed; except that, rupture disks are not guaranteed except to burst within specified pressure ranges at temperatures specified at the 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. BS&B specifically disclaims any warranty and any and all liability for damages, either direct or indirect, incidental or consequential, arising from the use of rupture disk assemblies not wholly comprised of BS&B manufactured products.

Any article not manufactured by BS&B which is sold hereunder is sold only under such warranties as the manufacturer thereof extends to BS&B and which BS&B can pass through to the Buyer and enforce with reasonable effort.

Because of the effects of corrosion or erosion by acids, chemicals, fumes, rust, dirt, debris and other factors of storage, use, and installation, over which BS&B has no control, BS&B makes no other warranties beyond those expressly stated in this limited warranty.

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BS&B Safety Systems, Inc. and BS&B Safety Systems Ltd. are here to assist you in providing a safe and efficient work place. For assistance on installation, audits, training or technical advice, please contact our Customer Service Department.

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