

# **INSTRUCTION MANUAL**

II-TX-7001-EN (Rev 0)

# Type: LSR™ RUPTURE DISK and SRB-7RS™ and SRI-7RS™ SAFETY HEADS

Warning: Rupture disks are intended to provide a pressure relief opening. This rupture disk is designed to burst at a specified temperature and pressure, thereby relieving excess pressure or preventing excessive vacuum in a system. It is imperative that this rupture disk be properly installed and safely vented in order to avoid bodily injury, damage to property, pollution and loss of product. BS&B Safety Systems L.L.C. and BS&B Safety Systems Limited supply disks selected by their customers that are manufactured in reliance upon information and specifications supplied by the customer. BS&B Safety Systems L.L.C. and BS&B Safety Systems Limited are not liable for any damage resulting from improper installation, improper system design, unsafe venting, or other factors beyond BS&B Safety Systems L.L.C. and BS&B Safety Systems Limited control. Do not locate the rupture disk where personnel, equipment or property will be exposed to temperature and pressure through the activated disk.

# **ORDER REPLACEMENT DISKS BY LOT NUMBER** (shown on disk tag).

# BEFORE YOU INSTALL A RUPTURE DISK Inspect Safety Head

- Inspect Safety Head mating surfaces for foreign material. Pits, dirt, or grit can damage the rupture disk affecting disk performance or cause leakage. Clean if necessary. The safety head size and pressure rating must match the companion pipe flange size and rating. Ensure that appropriate adjustments are made for temperature when reviewing flange rating compatibility.
- The Rupture Disk and Safety Head must not be machined or modified in any way except with the approval of BS&B Safety Systems L.L.C. or BS&B Safety Systems Ltd. Failure to obtain such approval voids the warranty on this product.

### **Inspect Pipe Flanges**

 Ensure the pipe flanges are parallel to a sufficient standard that will permit proper function of both the rupture disk device and the chosen pipe flange gaskets.

### Inspect the Rupture Disk

1. Handle the rupture disk carefully holding the disk by the perimeter or tag only. Examine seating and domed surfaces for nicks, dents, scratches, and foreign material which can damage the disk or cause leakage or affect the burst pressure. **Do not install a damaged disk.** Installation of a damaged disk may result in premature activation of the disk. The LSR<sup>TM</sup> series uses SAF<sup>TM</sup> technology (Structural Apex Forming) and the designed precision indentation in the centre of the dome is present in all cases to assist operating accuracy.

### **Safety Precautions**

**CAUTION:** When installing a disk upstream of a pressure relief or safety valve, ensure that the opening of the disk does not interfere or affect the performance of the valve. Provide adequate support for piping and connections to absorb recoil/reaction forces when the disk activates. The Rupture Disk and Safety Head should not be subjected to bending stresses. Do not locate the disk where it may be subjected to thermal shock. Moisture, rain, condensation, or snow may cause a

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thermal shock to the disk causing the disk to activate below its marked Burst Pressure. When the disk activates, the resulting shock wave may affect the operating performance of downstream equipment. Handle carefully, individual disk components have sharp edges.

**Note:** Corrosion and process conditions may affect disk deterioration and necessitate more frequent replacement. The installation of the rupture disk must be conducted by trained and competent personnel.

# **Disk and Safety Head Types**

Disk Type	Safety Head
LSR™	SRB-7RS™ or SRI-7RS™

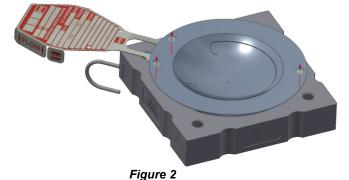
# Assemble Rupture Disk in SRB-7RS™ or SRI-7RS™ Safety Head.

 Place the inlet of the Safety Head on a flat work surface in position as shown in (Figure 1) with flow arrows and locating pins up.



Figure 1

Place NEW, UNDAMAGED rupture disk on inlet so locating pins mate with the corresponding holes in the rupture disk. (Figure 2).



Issued Nov 14<sup>th</sup>, 2023 Page 1 of 13

- Carefully align and place outlet flange in position as shown. Ensure flow arrows on the disk tag and on the Safety Head point in the same direction.
- Assemble unit with recessed capscrews. Tighten all 12-point high strength capscrews with socket (See Table I for socket type) finger tight before torquing. DO NOT SUBSTITUTE for capscrews supplied. Do not lubricate blue fluoropolymer coated capscrews. (Figure 3).

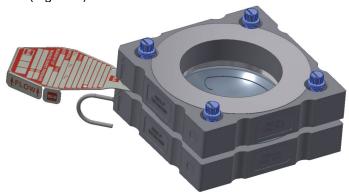
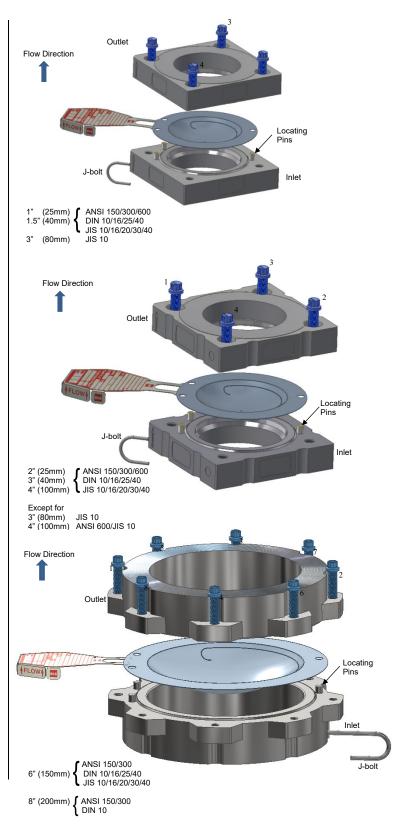


Figure 3

- 5. Evenly torque the capscrews to the value shown in Table I when using uncoated capscrews or Table II when using blue color fluoropolymer coated capscrews. Torque evenly in a diagonal pattern by applying 1/4 of the torque value to capscrew (1), and then applying torque to (2), (3) and (4) etc. Repeat the torquing pattern for 1/2 then 3/4 of the recommended torque value. Finally using the same pattern, torque to full torque value.
- 6. The 12-point capscrew heads should be recessed into the SRB-7RS Safety Head outlet after installation.
- 7. Sizes 2" (50mm) and above have a "bite-type" seal on the SRB-7RS inlet face that engages with the rupture disk. Do not modify this feature in any way. Should the 'bite-type' seal be incomplete or damaged contact BS&B Safety Systems, Inc. or BS&B Safety Systems Ltd. for repair.

**Note:** Uneven or under torquing can cause disk rupture below its marked burst pressure. Excessive torquing can cause damage to the disk and Safety Head.



US Patent numbers: 7,784,482 & 10,704,698 apply. Additional US and International Patents Pending.

Table I: SRB-7RS™ Preassembly Capscrew Torque using uncoated capscrews

SI	ZE	SAFETY HEAD FLANGE RATING			PREASSEMBLY CAP-SCREW TORQUE		12-POINT SOCKET SIZE	SOCKET DRIVE*	SUGGESTED SOCKET SOURCE	
IN	MM	ANSI	DIN	JIS	FT-LB	NT-M	IN	IN	SNAP-ON TOOLS	
1	25	150			10	14	1/4	1/4	STMD-8	
1	25	300/600	10/16/25/40	10/16/20/30/40	10	14	1/4	1/4	STMD-8	
1.5	40	150		10/16/20	13	18	5/16	1/4	STMD-10	
1.5	40	300/600	10/16/25/40	30/40	13	18	5/16	1/4	STMD-10	
2	50	150	10/16/25/40	10	22	30	5/16	1/4	STMD-10	
2	50	300/600		16/20/30/40	22	30	5/16	1/4	STMD-10	
3	80	150	Oct-16	16	26	35	3/8	3/8*	SF-121	
3	80	300/600	25/40	20/30/40	26	35	3/8	3/8*	SF-121	
4	100	150	Oct-16	Oct-16	55	75	7/16	3/8*	SF-141	
4	100	300	25/40	20/30/40	55	75	7/16	3/8*	SF-141	
							0./0	0 (0.1	0= 101	
6	150	150	Oct-16	10	36	50	3/8	3/8*	SF-121	
6	150	300	25/40	30	36	50	3/8	3/8*	SF-121	

Notes: \* 12-point, deep length, thin wall socket
The torque values in the table above are based on the assumption of lightly oiled, clean free running threads with a co-efficient of friction of  $\mu$  = 0.16. The user is advised that the effects of corrosion, the use of particular thread compounds or dry assembly, may result in a change in the effective clamp load on the disk assembly. This may adversely affect the performance of the bursting disk device.

Table II: SRB-7RS™ Preassembly Capscrew Torque using blue fluoropolymer coated capscrews MAX. Temperature 260°C (500°F)

s	SIZE		SAFETY HEAD FLANGE RATING			PREASSEMBLY CAP-SCREW TORQUE		SOCKET DRIVE*	SUGGESTED SOCKET SOURCE	
IN	ММ	ANSI	DIN	JIS	FT-LB	NT-M	IN	IN	SNAP-ON TOOLS	
1	25	150			5	7	1/4	1/4	STMD-8	
1	25	300/600	10/16/25/40	10/16/20/30/40	5	7	1/4	1/4	STMD-8	
1.5	40	150		10/16/20	7	9	5/16	1/4	STMD-10	
1.5	40	300/600	10/16/25/40	30/40	7	9	5/16	1/4	STMD-10	
2	50	150	10/16/25/40	10	11	15	5/16	1/4	STMD-10	
2	50	300/600		16/20/30/40	11	15	5/16	1/4	STMD-10	
3	80	150	Oct-16	16	13	18	3/8	3/8*	SF-121	
3	80	300/600	25/40	20/30/40	13	18	3/8	3/8*	SF-121	
	1		0 1 10	0 1 10			-//-	2 (2 )	0= 111	
4	100	150	Oct-16	Oct-16	28	38	7/16	3/8*	SF-141	
4	100	300	25/40	20/30/40	28	38	7/16	3/8*	SF-141	
	ļ									
6	150	150	Oct-16	10	18	25	3/8	3/8*	SF-121	
6	150	300	25/40	30	18	25	3/8	3/8*	SF-121	

Notes: \* 12-point, deep length, thin wall socket

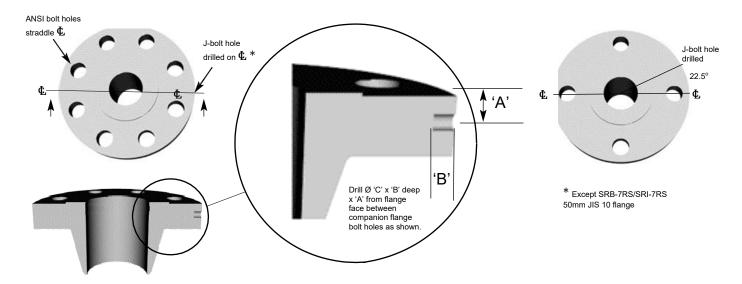
Do not use thread lubricant with blue fluoropolymer coated capscrews

Table III: SRI-7RS™ Preassembly – Torque Tables - Hex Cap Screws

SI	ZE	SAFE	TY HEAD FLANGE RA	TING	PREASSEMBLY HEX CAP SCREW TORQUE	SOCKET SIZE
IN	DN	ASME B16.5 (Class)	BS EN 1092 (PN)	JIS B2220	ft.lbs	inch
1	25	150	-	-	5	1/2
1	25	300/600	10/16/25/40	10/16/20/30/40	5	1/2
1.5	40	150	-	10/16/20	6	9/16
1.5	40	300/600	10/16/25/40	30/40	6	9/16
2	50	150	10/16/25/40	10	26	9/16
2	50	300/600	-	16/20/30/40	26	9/16
3	80	150	10/16	16	30	5/8
3	80	300/600	25/40	20/30/40	30	5/8
4	100	150	10/16	10/16	63	3/4
4	100	300	25/40	20/30/40	63	3/4
6	150	150	10/16	10	42	5/8
6	150	300/600	25/40	30	42	5/8

GOST 12815-80 flanges same as BS EN 1092 above

Figure 4: Inlet Companion Flange Drilling to Accept J-Bolt



## J-Bolt Drilling

The SRB-7RS™ (See Fig 5) and SRI-7RS™ (See Fig 6) fit inside the bolting pattern of the companion flange. See appropriate figure for your assembly. The J-Bolt prevents the Safety Head from being installed upside down. The inlet companion flange must be drilled to accept the J-Bolt. See Table IV.

The torque values in the table above are based on the assumption of a coefficient of friction of  $\mu$ =0.2

# Figure 5 SRB-7RS™ Safety Heads Inside the Flange Bolting Pattern



1" (25 mm)

ANSI 150/300/600 DIN 10/16/25/40 JIS 10/16/20/30/40

1.5" (40mm)

ANSI 150/300/600 DIN 10/16/25/40 JIS 10/16/20/30/40



2" (50mm)

ANSI 150 JIS 10



2" (50mm)

ANSI 300/600 JIS 16/20/30/40

3" (DN80)

ANSI 300/600 DIN 10/16/25/40 JIS 16/20/30/40

4" (DN100)

ANSI 150/300 DIN 10/16/25/40 JIS 10/16/20/30/40



2" (50mm)

3" (80mm)

ANSI 150 DIN 10/16/25/40

**ANSI 150** 



3" (80mm)

JIS 10



6" (150mm)

ANSI 150 DIN 10/16/25/40

JIS 10

8" (200mm)

ANSI 150 DIN 10



6" (150mm)

ANSI 300 JIS 30/40

8" (200mm) ANSI 300

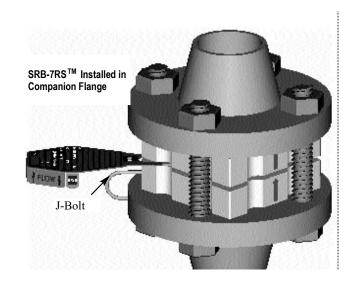
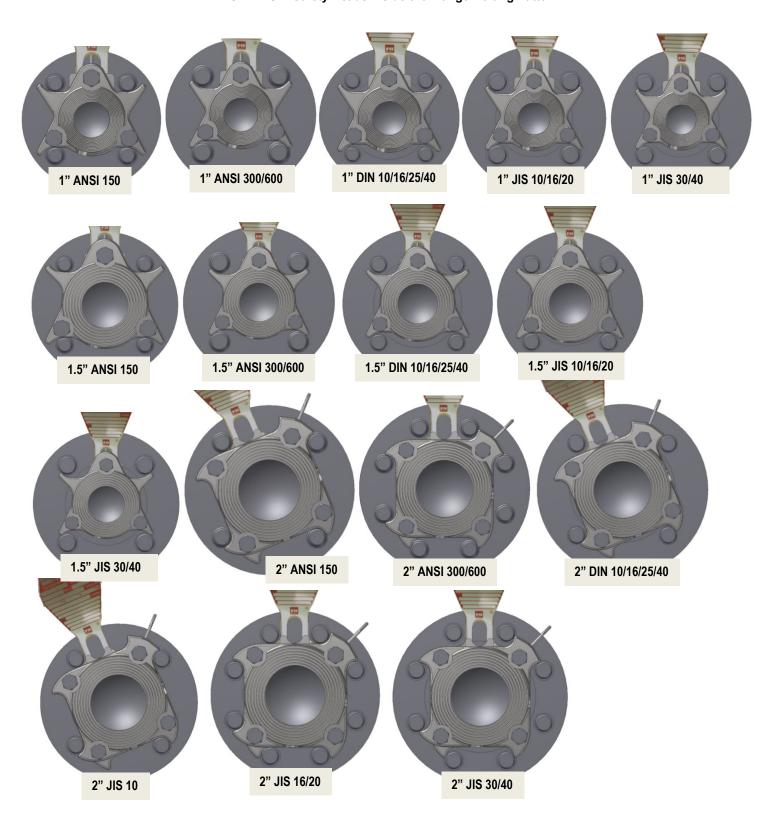
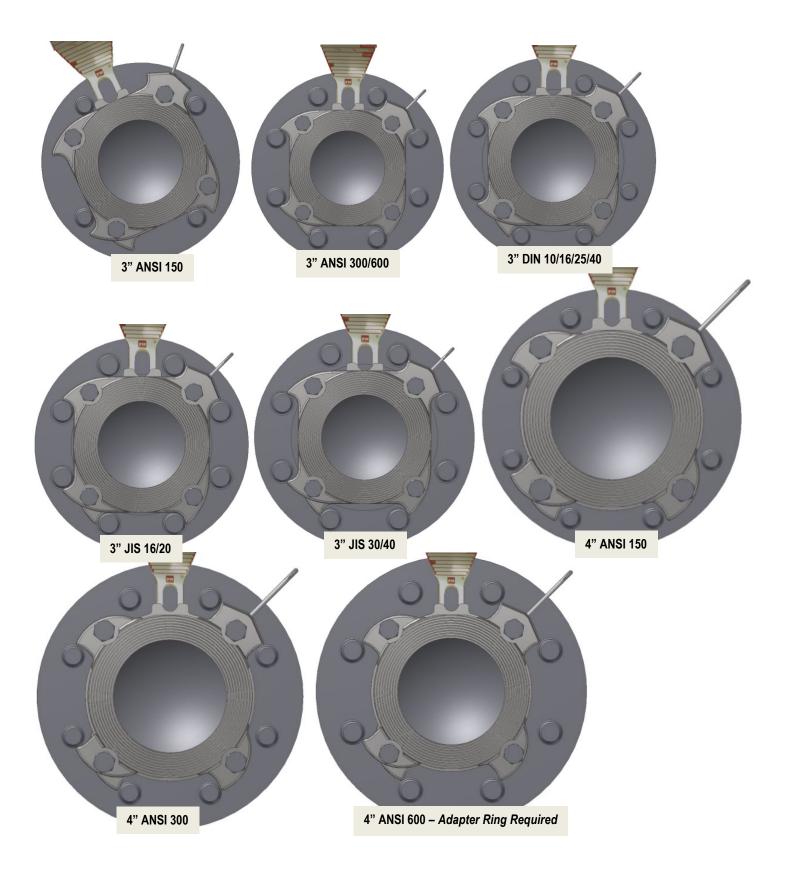
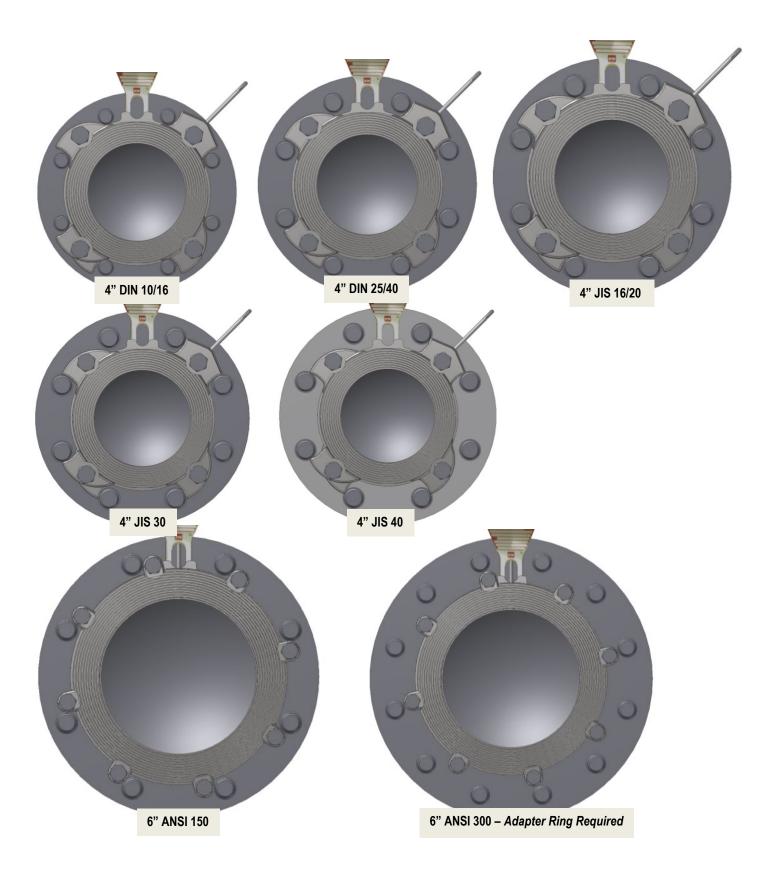
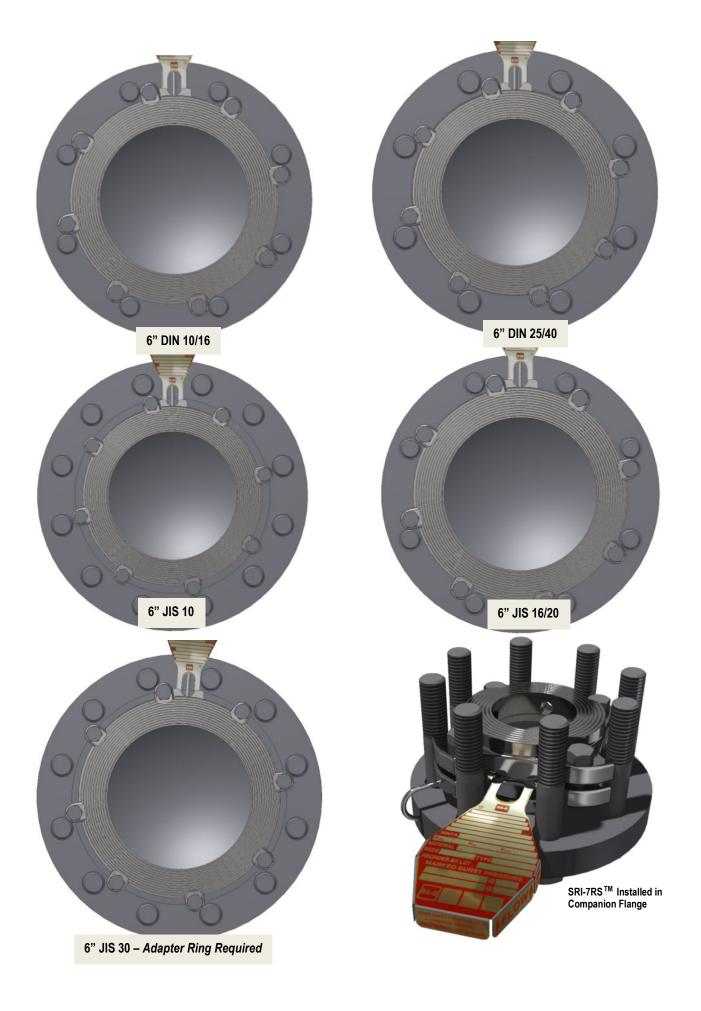


Figure 6
SRI-7RS™ Safety Heads Inside the Flange Bolting Pattern









**Table IV**SRB-7RS™ / SRI-7RS™ Safety Head Companion Flange J-Bolt Drilling Dimensions

O.	75	001404	NION EL ANO	- DATING	DIMENSIONS							
Si	ZE	COMPA	NION FLANG	ERATING	A B C							
IN	ММ	ANSI	DIN	JIS	IN +/-1/32	MM +/-0.8	IN +1/16 -0	MM +1.6 -0	IN	ММ		
1	25	150	-	-	5/16	8	7/16	11	3/8	9.5		
1	25	-	10/16	-	13/32	10	5/16	8	7/16	11		
1	25	-	-	10/16	9/32	7	35/64	14	7/16	11		
1	25	300	-	-	7/16	11	1/2	13	3/8	9.5		
1	25	-	25	-	13/32	10	5/16	8	7/16	11		
1	25	-	-	20	9/32	7	5/8	16	7/16	11		
1	25	600	-	-	1/2	13	5/8	16	3/8	9.5		
1	25	-	40	-	13/32	10	35/64	14	7/16	11		
1	25	-	-	30/40	13/32	10	6/8	16	7/16	11		
1.5	40	150	-	-	3/8	9.5	7/16	11	7/16	11		
1.5	40		10/16	-	13/32	10	13/32	10	7/16	11		
1.5	40	-	-	10/16/2020	11/32	9	5/8	16	7/16	11		
1.5	40	300	-	-	1/2	13	1/2	13	7/16	11		
1.5	40	-	25/40	-	13/32	10	13/32	10	7/16	11		
1.5	40	-	-	30/40	7/16	11	19/32	15	7/16	11		
1.5	40	600			9/16	14.5	1/2	13	7/16	11		
2	50	150	-	-	7/16	11	7/16	11	7/16	11		
2	50	-	-	10/16/2020	13/32	10	7/16	11	7/16	11		
2	50	-	10/16/25/40	-	15/32	12	19/32	15	7/16	11		
2	50	-	-	30/40	15/32	12	5/8	16	7/16	11		
2	50	300/600	-	-	9/16	14.5	11/16	17.5	7/16	11		
3	80	150	-	-	5/8	16	7/16	11	7/16	11		
3	80	-	-	10	13/32	10	13/32	10	7/16	11		
3	80	-	10/16/25/40	-	15/32	12	13/32	10	1/2	13		
3	80	-	-	16/20	1/2	13	11/32	9	7/16	11		
3	80	300/600	-	-	5/8	16	13/16	20.5	7/16	11		
3	80	-	-	30/40	1/2	13	19/32	15	7/16	11		
4	100	150	-	-	5/8	16	9/16	14.5	7/16	11		
4	100	-	10/16	-	15/32	12	13/32	10	19/32	15		
4	100	-	-	10	13/32	10	13/32	10	7/16	11		
4	100	300	-	-	5/8	16	1-1/6	27	7/16	11		
4	100	-	25/40	10/00	15/32	12	23/32	18	19/32	15		
4	100	- 600	-	16/20	19/32	15	1/2	13	7/16	11		
4	100	600	-	-	13/16	20.5	9/16	14.5	7/16	11		
4	100	-	-	30	19/32	15	25/32	20	7/16	11		
4	100	- 150	-	40	19/32	15 16	1-1/32	26	7/16	11		
6	150 150	150	10/16	-	5/8 15/32	12	9/16 7/16	14.5 11	7/16 5/8	11 16		
6	150	-		10	35/64	14	5/16	8	7/16	11		
6	150	-	-	16/20	13/32	10	15/32	12	7/16	11		
6	150	300	<u>-</u>		11/16	17.5	1-5/16	33.5	7/16	11		
6	150	1	25/40	-	15/32	17.5	3/4	19	5/8	16		
6	150	600		-	13/16	20.5	9/16	14.5	7/16	11		
6	150	000	-	30	43/64	20.5 17	1-3/16	30	7/16	11		
6	150	-	<u>-</u>	40	43/64	17	1-49/64	45	7/16	11		

Table V
SRB-7RS™/SRI-7RS™ Safety Head Companion Flange Studs

SIZE		COMPAI	NION FLANGE	RATING	Number	DIAMETER	R OF STUD	MINIMUM LENGTH OF STUD		
IN	MM	ANSI	DIN	JIS	of Studs	IN	MM	IN	ММ	
1	25	150	-	-	4	1/2	-	4-1/2	-	
1	25	300	-	-	4	5/8	-	5-1/2	-	
1	25	600	-	-	4	5/8	-	5-1/2	-	
1	25	900/1500	-	-	4	5/8	-	8-1/2	-	
1	25	-	10/16/25/40	-	4	-	12	-	125	
1	25	-	-	10/16/20	4	-	16	-	135	
1	25	-	-	30/40	4	-	16	-	135	
1.5	40	150	-	-	4	1/2	-	5	-	
1.5	40	300/600	-	-	4	3/4	-	6-1/2	-	
1.5	40	900/1500	-	-	4	1	-	8-1/2	-	
1.5	40	-	10/16/25/40	-	4	-	16	-	135	
1.5	40	-	-	10/16/20	4	-	16	-	140	
1.5	40	-	-	30/40	4	-	20	-	150	
2	50	150	-	-	4	5/8	_	6-1/2	_	
2	50	300	-	-	8	5/8	-	6-1/2	-	
2	50	600	-	-	8	5/8	-	6-1/2	_	
2	50	900/1500	-	-	8	5/8	-	9-1/2	_	
2	50	-	10/16/25/40	-	4	-	16	-	145	
2	50	_	-	10	4	-	16	_	140	
2	50	_	-	16/20	8	-	16	_	140	
2	50	_	_	30/40	8	-	16	_	155	
3	80	150	_	-	4	5/8	-	6-1/2	-	
3	80	300	_	-	8	3/4	_	7-1/2	_	
3	80	600	_	-	8	3/4	_	7-1/2	_	
3	80	900	_	-	8	5/8	_	10	_	
3	80	1500	_	_	8	1-1/8	_	12-1/2	_	
3	80	-	10		8	-	16	-	155	
3	80	_	16/25/40	_	8	-	16	_	160	
3	80	_	-	10	8	_	16	_	155	
3	80	_	_	16/20	8	-	20	_	165	
3	80	-	_	30/40	8	-	20	_	185	
4	100	150	_	-	8	5/8	-	7-1/2	-	
4	100	300	_	-	8	3/4	_	8-1/2	_	
4	100	600	_	<u>-</u>	8	7/8	_	8	_	
4	100	-	Oct-16	10	8	-	16	-	180	
4	100	<del>                                     </del>	25/40	-	8	-	21	_	185	
4	100	<del> </del> -	-	16/20	8	-	20	_	195	
4	100	<del> </del> -	_	30/40	8	-	22	_	210	
6	150	150	-	-	8	3/4	-	8-3/4		
6	150	300	-		12	3/4	_	9-1/2	_	
6	150	600	-	<u>-</u>	12	1	-	10-1/2		
6	150	-	Oct-16	<u>-</u>	8	-	21	-	205	
6	150	-	25/40	<u>-</u>	8		25	1	205	
6	150			10	8	-	20	-	205	
6	150	-	-	16/20	12	-	22	-	205	
6		-	-		12	-		-		
O	150	-	-	30	12	•	24	-	245	

For other safety head types, consult BS&B Safety Systems, Inc. or BS&B Safety Systems Ltd. This data assumes the use of a standard specification SRB-7RS & SRI-7RS Safety Heads as indicated in Catalogs 77-4001 & 77-7007.

#### **Sustainability Comments & Recommendations**

The LSR rupture disk has been manufactured using low energy consumption processes, no chemical additives, no direct use of water, and by personnel whose workplace is ISO 14001 certified.

Each LSR rupture disk is individually packaged for its protection using readily recyclable cardboard material to optimize your disposal options. Please keep each rupture disk in their individual boxes until the time of use in order to provide the highest level of protection in storage. Installation instructions are printed on recyclable paper.

End of life; you have purchased state of the art rupture disk technology which uses the least amount of material for the task it is asked to perform, thereby reducing end of life disposal requirements. The single piece construction of the LSR rupture disk reduces disposal requirements compared to many other designs. Your process conditions will determine the disposal path that is appropriate. For example, decontamination may be required for certain process conditions to which the LSR rupture disk has been exposed. You are encouraged to pursue the most environmentally responsible means of decontamination available for the process contact materials present. The LSR rupture disk comprises only the rupture disk itself and an attached metal tag; the rupture disk material is declared on the tag and the tag itself is stainless steel with red color paint inlay. Local jurisdictional requirements for disposal of metal waste can be followed; there are typically no special requirements related to disposal of the LSR rupture disk materials of construction.

#### Warranty

The manufacturer ("Manufacturer") of these goods ("Goods") warrants the Goods, when installed, used and maintained in accordance with the Manufacturer's specifications, requirements, installation instructions and other directions, against defective workmanship and materials for the periods specified below. Buyer's failure to install, use and maintain the Goods in strict compliance with all material operating specifications and at minimum recommended intervals shall void this warranty.

Manufacturer warrants its Goods as follows:

- Pressure relief devices, including rupture disk devices, pressure relief valves, sensors, explosion vents and buckling pin devices - 12 months from date of shipment.
- Flame arresters, breather vents 12 months from date of shipment.
- Manufacturer's original equipment manufactured parts 12 months from date of shipment.
- Spare parts for same 90 days from date of shipment.

#### **Warranty Limitations**

Manufacturer manufactures and supplies Goods in reliance upon information and specifications provided by Buyer. The Buyer's or user's facility design, facility operating conditions and environment, process specifications, installation procedures, materials, hazard analysis risks, and/or other operational conditions can affect the performance of the Goods. Manufacturer shall have no liability, of whatever nature, resulting or arising from: (a) Buyer's failure to account for, disclose fully, and/or take appropriate precautions regarding all material operating conditions, facility design and operation details, design parameters, process specifications (including, but not limited to, fuel grade, process temperatures, process material,  $K_{\rm st}$ ,  $P_{\rm max}$ , vibration involved and/or presence of corrosive or toxic

materials), and system or vessel requirements; (b) placement of the Goods in a location other than represented to Manufacturer or required by Manufacturer; (c) Buyer's failure to protect other facility equipment and/or conduct an appropriate hazard analysis; (d) improper installation of the Goods; (e) any misrepresentations or omissions by Buyer; (f) and/or the system's operation, discharge or operation of the Goods as designed. If Manufacturer's quotation was based on assumptions regarding any of these factors (including  $K_{\rm st}$  and/or  $P_{\rm max}$  values), it is the Buyer's responsibility to verify the accuracy of such values.

Manufacturer does not warrant any article not manufactured by Manufacturer or its affiliated companies; those goods are subject solely to the warranties provided by their respective manufacturers and permitted to be passed through by a seller to Buyer. Manufacturer will provide a copy of those warranties upon request. Customer service or alteration of the Goods shall void this warranty.

Manufacturer does not warrant Goods against loss or damage caused directly or indirectly by Buyer's or user's improper system design; by the improper use, maintenance or installation (including improper mounting or torque) of the Goods; or by corrosion, erosion, malfunction or release from this or any other device caused by acids, chemicals, fumes, rust, dirt, debris, thermal shock, shock waves, water or moisture ingress, propagation from unprotected equipment, or other external agencies over which Manufacturer has no control.

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