

BS&B[®]

Type TR™ Series

ASME Torque Resistant Safety Head



UD



About

The Type TR™ Series Torque Resistant Safety Head offers the identical performance and flow characteristics valued from standard BS&B safety heads. The only difference – the TR Series Safety Heads were designed with a wider seating surface. This distinct safety feature protects rupture disks from situations where plant personnel may overtorque rupture disks within piping systems, or when using spiral wound gaskets.

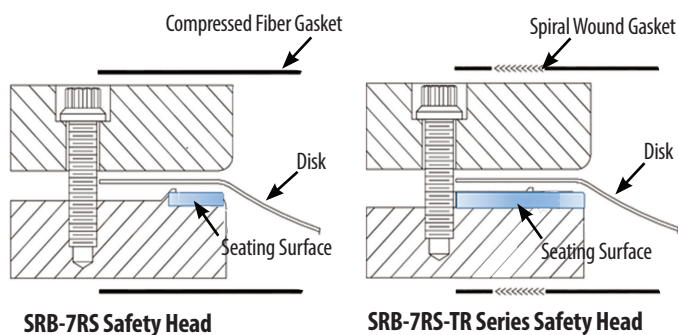
For a rupture disk to activate within its manufactured rated pressure, the end-user must apply the same clamping force (torque) to the rim of the disk as was used when the disk was tested and manufactured. If the same force is not applied, the rupture disk can activate at an unpredictable burst pressure.

Traditionally, installation instructions have recommended compressed fiber (sheet) gaskets. However, many customers have shown the preference for metal spiral wound gaskets, which can result in torque values greatly exceeding the torque specified for the products, which were designed for usage with compressed fiber gaskets.

The installation instructions for the TR-Series Safety Heads provide the recommended torque value for each safety head. BS&B advises that the posted torque values be used during installations. The TR-Series Safety Head does not relieve the end user from the responsibility of properly installing a rupture disk into a piping system.

Benefits

Because of the wider seating surface of the TR Series Safety Head, the load is distributed over a much broader area reducing the influence of excessive torque transmitted to the disk allowing the TR-Series Safety Heads to utilize the torque values associated with standard metal spiral wound gaskets.



SRB-7RS Safety Head

SRB-7RS-TR Series Safety Head



A 2" (50mm) LPS installed in an SRB-7RS-TR Safety Head

Materials

316 stainless steel, carbon steel, Monel® Alloy 400, Inconel® Alloy 600 and Hastelloy® C-276. *Hastelloy® is a trademark of Haynes International Inc. Monel® and Inconel® are trademarks of Special Metals Corporation.*

Available Safety Heads

Torque resistant options available for the following safety heads:

- SRB-7RS-TR
- NF-7RS-TR
- S90-7R-TR
- NF-7R-TR
- CSR-7RS-TR

Safety Head Dimensions

Safety Head dimensions are available in the catalog section located on our website at www.bsbsystems.com and www.bsb.ie. The take out dimensions are the same as the standard holders.

- SRB-7RS-TR: Catalog # 77-4001, Sta-Saf, pg. 17
- S90-7R-TR: Catalog # 77-4001, Sta-Saf, pg. 19
- CSR-7RS-TR: Catalog# 77-4009, Sure-Saf, pg. 3
- NF-7RS-TR: Catalog# 77-5003, Nu-Saf, pg. 8
- NF-7R-TR: Catalog# 77-5003, Nu-Saf, pg. 9

BSBSystems.com | BSB.ie

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.