

# SAFETY HEADS SRB-7RS™, S90-7R™ and SRB-7FS™

- ♦ Three asymmetric locating pins ensure centering and correct orientation of the disk within the Safety Head
- ♦ A "bite-type" seal for sizes 2" (50mm) and larger engages with the disk flange creating a metal-to-metal 'bubble tight' seal
- ♦ Disk dome protected by Safety Head inlet
- ♦ Maximized flow with full circular opening
- ♦ Flow arrows indicate direction of flow
- ♦ Special configurations available

## Specifications: Safety Head Type S90-7R

Size		Safety Head Flange Rating			Face-to-Face Dimensions
in	mm	ANSI	DIN	JIS	in
1	25	150	10/16	10/16	1.250
1	25	300/600	25/40	20/30/40	1.250
1	25	900/1500	-	-	1.750
1.5	40	150	10/16	10/16	1.250
1.5	40	300/600	25/40	20/30/40	1.250
1.5	40	900/1500	-	-	1.440
2	50	150	10/16	10/16	1.250
2	50	300/600	25/40	20/30/40	1.250
2	50	900/1500	-	-	1.620
3	80	150	10/16	10/16	1.376
3	80	300/600	25/40	20/30/40	1.500
3	80	900	-	-	1.750
4	100	150	10/16	10/16	1.719
4	100	300	25/40	20/30/40	1.719
4	100	600	-	-	1.719
6	150	150	10/16	10/16	2.500
6	150	300	25/40	20/30/40	2.500
6	150	600	-	-	3.125
8	200	150	-	-	3.375
8	200	300	-	-	3.375
10	250	150	-	-	6.000
10	250	300	-	-	6.000
12	300	150	-	-	5.688
12	300	300	-	-	5.500
14	350	150	-	-	5.625
14	350	300	-	-	5.625
16	400	150	-	-	6.375
16	400	300	-	-	7.125
18	450	150	-	-	7.500
18	450	300	-	-	7.500
20	500	150	-	-	6.250
20	500	300	-	-	8.625
24	600	150	-	-	7.000
24	600	300	-	-	7.750
30*	750	-	-	-	12.000
36*	900	-	-	-	15.000

\*30" and 36" torque value applies to MSS SP-44 Class 150 flanges  
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## Standard Materials:

316 Stainless Steel and Carbon Steel. Also available (Monel®) Alloy 400, (Inconel®) Alloy 600, (Hastelloy®) Alloy C, 316L Stainless Steel, Titanium and (Hastelloy®) Alloy C-276.

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Rupture Disk	Use in Safety Head Type:
S90	SRB-7RS, SRB-7FS, S90-7R
JRS	SRB-7RS and SRB-7FS
FRS	SRB-7RS, SRB-7FS, S90-7R
RLS	SRB-7RS and SRB-7FS

## S90-7R™ Pre- Assembled Safety Head

Locates inside the studs between two companion flanges.

Offers pre-assembly of S-90 or FRS disks into the Safety Head before installation into the pressure system.

Standard Materials:

316 Stainless Steel and Carbon Steel.

Disks cannot be reinstalled into the pressure system with a pre-assembled Safety Head. The disk would not seat within the Safety Head in the same manner each time risking leakage and compromising service life.

## Pre-Assembled Design



S90-7R Safety Head

## SRB-7RS™ Pre-torqued Safety Head

The original pre-torqued Safety Head, the SRB-7RS allows proper clamping of a Rupture Disk to be completed in the workshop before installation between companion flanges. A disk installed in a pre-torqued type SRB-7RS Safety Head may be taken out of service, inspected, cleaned (if appropriate) and reinstalled provided the cap screws are not loosened and the torque value is maintained.

Locates inside the studs between two companion flanges.

A J-bolt ensures the Safety Head is fitted in the required direction between companion flanges by

### Pre-Torqued Design



SRB-7RS Safety Head

US Patent 4751938 and other international patents apply.

engaging a blind hole drilled on the inlet companion flange perimeter. The J-bolt provides a constant visible signal of correct installation.

Multiple pipe flange compatibility, the SRB-7RS fits pipe flanges conforming to a wide range of International Standards, including ANSI, DIN, BS, AFNOR, UNI and JIS.

Fluoropolymer coated capscrews (blue color) for enhanced corrosion protection are recommended, while standard carbon steel cap screws are available.

## Specifications: Safety Head Type S90-7R

Size		Safety Head Flange Rating			Face-to-Face Dimensions
in	mm	ANSI	DIN	JIS	in
1	25	150	10/16	10/16	1.480
1	25	300/600	25/40	20/30/40	1.480
1	25	900/1500	-	-	3.000
1.5	40	150	10/16	10/16	1.680
1.5	40	300/600	25/40	20/30/40	1.680
1.5	40	900/1500	-	-	2.600
2	50	150	10/16	10/16	1.880
2	50	300/600	25/40	20/30/40	1.880
2	50	900/1500	-	-	3.375
3	80	150	10/16	10/16	2.170
3	80	300/600	25/40	20/30/40	2.170
3	80	900	-	-	3.500
4	100	150	10/16	10/16	2.880
4	100	300	25/40	20/30/40	2.880
4	100	600	-	-	2.500
6	150	150	10/16	10/16	3.624
6	150	300	25/40	20/30/40	3.624
6	150	600	-	-	3.062
8	200	150	-	-	3.750
8	200	300	-	-	3.750
10	250	150	-	-	4.313
10	250	300	-	-	4.313
12	300	150	-	-	4.625
12	300	300	-	-	5.250
14	350	150	-	-	5.250
14	350	300	-	-	5.875
16	400	150	-	-	6.375
16	400	300	-	-	7.125
18	450	150	-	-	7.375
18	450	300	-	-	7.875
20	500	150	-	-	8.437
20	500	300	-	-	8.625
24	600	150	-	-	10.250
24	600	300	-	-	10.750
30*	750	-	-	-	12.000
36*	900	-	-	-	15.000

\*30" and 36" to fit MSS SP-44 Class 150 flanges.

## SRB-7FS™ Pre-Torqued Safety Head

Full-bolted option sharing the design features of the type SRB-7RS Safety Head. The type SRB-7FS Safety Head installs between companion flanges with the studs passing through bolt holes in the perimeter of the holder. Recommended for RTJ, tongue and groove flange facings, or for a Safety Head in Nickel Alloy 200 or Tantalum (above 1 1/2", 40mm size).

Standard Materials:

316 Stainless Steel and Carbon Steel. Also available in Nickel Alloy 200 and Tantalum.