

## SANITARY FORWARD ACTING SCORED TYPE SHX

### DESCRIPTION

The SHX bursting disc is a forward acting, cross scored bursting disc that meets the requirements of the applicable 3-A standards. The concave surface of the disc is in contact with the process media and when subjected to a predetermined pressure, the SHX is designed to burst along the cross score pattern. The SHX bursting disc is designed specifically for use with the BCH burst indicator, providing instantaneous notification of bursting disc activation, allowing operators to take the appropriate measures quickly.

### APPLICATIONS

The Fike SHX bursting disc is ideal for a wide range of hygienic applications:

- Food processing
- Beverage processing
- Pharmaceutical manufacturing
- Biotechnology
- Any process with a Clean-In-Place / Steam-In-Place (CIP / SIP) regime



#### APPROVALS:

- CE
- UD
- 3A



## FEATURES AND BENEFITS

- Designed for cycling and pulsating duty
- High operating ratio
- Suitable for liquid or gas service
- Non-fragmenting
- Full vacuum resistant
- Used directly between standard TriClover, ASME BPE, DIN 32676, ISO 2852 and NA-Connect sanitary fittings
- 3A compliant
- Integral high quality gasket – EU 1935/2004 and 2023/2006 compliant

## SPECIFICATIONS

<b>Type of Disc</b>		SHX	
<b>Action</b>		Forward Acting	
<b>Materials of Construction</b>		1.4401 (316 SST)	
<b>Operating Ratio</b>		95%	
<b>Max. Temperature</b>		121°C	
<b>Burst Pressure (barg)</b>	<b>DN/Inch</b>	DN40 / 1.5"	DN50 / 2"
	<b>MIN</b>	22.75	20.68
	<b>MAX</b>	103.42	68.95
<b>Performance Tolerance</b>		Standard: ± 10% Reduced: ± 5%	
<b>Damage Ratio</b>		1 to 1	
<b>Vacuum Rating</b>		Full	
<b>Leak Rate</b>		Helium 1x 10 <sup>-4</sup> atm cc/sec or better	
<b>Optional Surface Finish</b>		Fluoropolymer liner on process side Electropolish	
<b>Gaskets <sup>1</sup> (USP Class VI FDA Approved) (EU 1935/2004 and 2023/2006 compliant)</b>		<i>Material</i> Viton (black) EPDM (grey) Silicone (white) PTFE (white) J-1500	<i>Temperature Range <sup>2</sup></i> -28°C up to 121°C -40°C up to 121°C -40°C up to 121°C -28°C up to 121°C -40°C up to 121°C
<b>Clamping</b>		TriClover #13MHHM Fike Clamp A8647-100-X (Temp. range -40°C up to 121°C)	
<b>Approvals</b>		CE / 3A / ASME UD	
<b>Optional Burst Indicator</b>		BCH	

(1) Gaskets are removable and replaceable to allow cleaning and maintenance in a clean-in-place/steam-in-place environment.

(2) For higher temperatures, consult Fike.



### MHP CLAMP

- The SHX bursting disc performs best when used with the Fike A8642-100-X clamp. This is a modified 13MHP clamp that is notched to allow the bursting disc tag to protrude out of the assembly.
- Assembly includes bolts, washers and nuts.
- Stainless Steel construction.



MHP Clamp

13 MHP	Max. Pressure Rating (barg)	
	DN40 / 1.5"	DN50 / 2"
at 22°C	103.42	68.95
at 121°C	81.74	55.16

### MHHM CLAMP

- One-piece design.
- Stainless Steel construction.



MHHM Clamp

13 MHHM	Max. Pressure Rating (barg)	
	DN40 / 1.5"	DN50 / 2"
at 22°C	34.47	31.03
at 121°C	20.68	20.68

Note: Clamp assemblies sold separately.

Performance Attributes				Process Media		HOLDERS
Operating Ratio	Non-Fragmenting	Vacuum Resistance	Sanitary	Vapour / Gas	Liquid	Ferrule
95%	Yes	Yes	Yes	Yes	Yes	Yes