

SR-H, REVERSE ACTING, HYGIENIC RUPTURE DISC

The SR-H is a reverse acting, scored rupture disc for use in hygienic applications. Fike’s SR-H rupture disc incorporates the Contour Modified™ design giving the SR-H superior performance in extreme operating conditions. The SR-H is designed to burst at low pressures and operate in liquid or gas services and does not require special rupture disc holders. The SR-H is designed for installation in hygienic ferrules and NA Connect fittings.



SR-H Rupture Disc

Fike hygienic rupture discs are in compliance with 3-A standard 60-01. As a result, certified rupture discs are designated as “One Time Installation” and are designed to be easily cleaned through CIP (Clean-In-Place) methods and not intended for removal and reinstallation in order to maintain 3-A compliance.

SPECIFICATIONS

SIZES	1.5 – 4 in	DN38 – DN100					
DISC MATERIALS	316 / 316L SST	1.4401 / 1.4404					
BURST PRESSURE RANGE	12 – 140 psig	0.83 – 9.65 barg					
BURST PRESSURE TOLERANCE	See table on page 2						
OPERATING RATIO	For standard applications 90%	For CE or UKCA applications < 2.76 barg = 90% > 2.76 barg = 95%					
STANDARD MANUFACTURING RANGE	Zero	N/A					
MAX OPERATING TEMP	See Gasket Information Table						
K_{RG} / K_{RL} / K_{RGL} & MNFA⁽¹⁾	K _{RGL} = 1.88						
VACUUM RESISTANCE	Full ⁽²⁾						
PROCESS MEDIA	Gas / Vapor, Liquid, & two phase						
FRAGMENTATION	Non-fragmenting						
TYPICAL WETTED SURFACE FINISH, Ra	12 - 25 µin	0.3 - 0.6 µm					
SDAPPROVALS	 ASME	 CE Marked	 3-A	 SELO	 EAC	 KOSHA	 UKCA

(1) More information on Kr-values and MNFA can be found [here \(TB8104\)](#).
 (2) Consult Fike if full vacuum is required and specified burst pressure is below 15 PSIG / 1.03 BARG.

OPTIONS

BURST INDICATOR⁽¹⁾	Integral / BCH	
ELECTRO-POLISH (AVERAGE WETTED SURFACE FINISH, Ra)	8 – 16 µin	0.2 – 0.4 µm
PASSIVATION	Yes	
LINERS	FEP (Process side only)	
PAINT-FREE SST TAG	Yes	

(1) More information on burst indicators can be found [here \(Burst Indicators Data Sheet\)](#).

MINIMUM / MAXIMUM BURST PRESSURE IN PSIG/BARG @ 72°F/22°C

MATERIAL			316/316L SST 1.4401/1.4404			
SIZE		FERRULE	PSIG		BARG	
In	DN		MIN.	MAX.	MIN.	MAX.
1.5	40	ASME BPE	24	140	1.65	9.65
2	50	ASME BPE	20	100	1.38	6.89
3	80	ASME BPE	15	80	1.03	5.51
4	100	ASME BPE	12	55	0.83	3.79
-	40	DIN 32676 Row A	24	140	1.65	9.65
-	50	DIN 32676 Row A	24	100	1.65	6.89
-	38	ISO 2852 Table 2	24	140	1.65	9.65
-	51	ISO 2852 Table 2	24	100	1.65	6.89
-	76	ISO 2852 Table 2	15	80	1.03	5.51

BURST / PERFORMANCE TOLERANCES

BURST PRESSURE		TOLERANCE	
PSIG @ 72°F	BARG @ 22°C	PSI	BAR
≤ 40	≤ 2.76	± 2	± 0.14
> 40	> 2.76	± 5%	± 5%

GASKET INFORMATION

GASKET MATERIAL ⁽³⁾	SERVICE TEMPERATURE (°F)		SERVICE TEMPERATURE (°C)	
	MIN.	MAX.	MIN.	MAX.
White EPDM (Peroxide Cured) ⁽¹⁾⁽⁴⁾	-40	275	-40	135
White EPDM (Sulfur Cured) ⁽¹⁾⁽²⁾⁽⁴⁾	-40	300	-40	149
Black EPDM (Sulfur Cured) ⁽¹⁾⁽⁴⁾	-40	300	-40	149
PTFE ⁽⁵⁾	-20	450	-28	232
Silicon (Platinum Cured) ⁽¹⁾⁽⁴⁾	-40	450	-40	232
Viton® ⁽¹⁾⁽⁴⁾	-4	450	-20	232
SST Filled PTFE ⁽⁵⁾	-40	450	-40	232

- (1) Not available in all sizes.
- (2) 3-A approval applies to all gaskets except white EPDM (Sulfur Cured).
- (3) All gaskets are FDA 21CFR177.2600, USP Class VI, and EC 1935/2004 approved.
- (4) For best sealing results, choose more elastomeric gasket materials such as Silicon, Viton®, or EPDM.
- (5) PTFE is subject to cold flow in gasketed connections and may result in leakage and the need for frequent re-tightening. SST Filled PTFE is highly resistant to cold flow and is a preferable alternative to PTFE in most applications.