BosCo®

Sanitary Metal Rupture Disc/YFW Series

YFW Series rupture disc is an extension of YF disc,providing over-pressure protection in sanitary piping system. Applications include food processing, dairy, breweries, pharmaceutical, distilling,baking ,canning,cosmetics,biotechnology and petrochemical industries.

-Technical features

- Providing over-pressure protection for sanitary piping systems
- Ideal for high purity and corrosion resistance applications
- Designed for non-fragmentation
- Suitable for liquid, gas, or two-phase applications
- Standard manufacturing range :0%
- Operating ratios up to 90% of the low end of burst tolerance, even to 95% of bursting pressure.
- Withstand full vacuum without back pressure support
- Installed in Tri-clamp®/Tri-clover clamp
- standard gasket material: EPDM(FDA),

——Options

- Burst Indicator
- Standard Clamp

----Clamps

• Size: 1"-4"

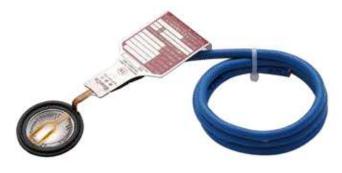
Material: Stainless Steel



Before and after bursting of YFW Rupture Disc



YFW Rupture Disc mounts in standard clamp



YFW Rupture Disc, Gasket, Sensor

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Minimum and Maximum Burst Pressure Ratings - psig(barg)@72°F(22°C)

Size in. (mm)	Burst Pressure – psig (bar)			Min.		
	Min.		Max.	Relieving Area in² (cm²)	Clamp Size in (mm)	
	316SS*		iviax.	(SIII)	OD	ID
1"	11	16	83	0.35	1.984	0.856
25 mm	(0.76)	(1.10)	(5.72)	(2.25)	(50.4)	(21.7)
1-1/2"	9	11	27	0.79	1.984	1.356
40 mm	(0.62)	(0.76)	(1.86)	(5.09)	(50.4)	(34.4)
2"	7	11	24	1.63	2.516	1.856
50 mm	(0.48)	(0.76)	(1.66)	(8.77)	(63.9)	(47.1)
3"	6	10	20	3.86	3.579	2.865
80 mm	(0.41)	(0.69)	(1.38)	(24.9)	(90.9)	(72.5)
4"	3	8	18	6.82	4.682	3.810
100 mm	(0.21)	(0.55)	(1.24)	(43.99)	(118.9)	(96.8)

Notes: For higher temperatures, materials, sizes, burst ratings not shown, contact BasCo.

Burst Tolerance

GB 567-2012				
Rated Burst Pressure bar	Burst Tolerance			
≥0.01~ < 0.1	± 50%			
≥ 0.1~ < 1	± 25%			
≥1~ <3	±0.015Mpa			
≥3~ <1000	± 5%			
≥1000~ <5000	±4%			

Note: Burst tolerances are the maximum expected variation from the disk's marked burst

Gasket

Material	Max. Temperature		
Black Nitrile Rubber	230°F (110°C)		
White Nitrile Rubber	230°F (110°C)		
Black EPDM	347°F (175°C)		
Black Viton	400°F (204°C)		