

## Sanitary Metal Rupture Disc/YFW Series

BasCo<sup>®</sup>

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



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

Size in. (mm)	Burst Pressure – psig (bar)			Min. Relieving Area in <sup>2</sup> (cm <sup>2</sup> )	Clamp Size in (mm)	
	Min.		Max.		OD	ID
	316SS*					
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)