

YDC series rupture disc is a two-way rupture disc design, which provides protection against over-pressure or vacuum for storage tanks.



YDC Rupture Disc

Technical features

- High accuracy, working under ultra-low pressure
- Bi-directional discharge design, precise laser cutting technology
- Size range: 3" (80mm) to 12" (300mm)
- Bursting pressure range: 1 inch water column to 150psig(10.335barg)
- Standard materials can be provided, or special materials can be customized
- 3D disc label, including all parameters of the disc
- special YDCJ holder



YDC Rupture Disc bursts at bursting pressure

YDC Rupture Disc bursts at bursting vacuum

YDC Series Components

- Protective ring provides protection to seal in case of positive pressure.
 - Seal evenly distributes pressure in both the vacuum and positive pressure direction.
 - Girdle Standard material is 316SS. Also, available in TEFLON.
- Controls the standard min. To max. Inches of water column negative(vacuum) pressure rating

Options

- Burst Indicator
- Laser cut pressure cap Provides protection to seal in case of positive pressure
- Laser cut burst cap Provides positive pressure relief at specified rating

Note: This option will significantly reduce the flowing capacities in the vacuum relief direction. Contact BasCo for flow rate information.





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

Disk Size		Vacuum Relief				Overpressure Relief			
NPS [in]	DN [mm]	InWC		barg		psig		barg	
		min.	max.	min.	max.	min.	max.	min.	max.
2"	50	7.5	44	0.019	0.11	4.4	145	0.3	10
2½"	65	6.8	44	0.017	0.11	3.6	87	0.25	6
3"	80	6	44	0.015	0.11	2.9	73	0.2	5
4"	100	5.5	44	0.014	0.11	2.2	58	0.15	4
5"	125	5.5	44	0.014	0.11	2.2	58	0.15	4
6"	150	5.5	44	0.014	0.11	2.2	36	0.15	2.5
8"	200	5.5	44	0.014	0.11	1.5	29	0.1	2
10"	250	5.5	32	0.014	0.08	1.2	29	0.08	2
Max. Temp.		176°F (80°C)				176°F (80°C)			

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