

## Reverse Acting Crocodile Tooth Rupture Disc/YE Series

**BasCo**<sup>®</sup>

The convex of reverse acting rupture disc is on the high pressure process side. When the metal disc is compression-loaded, the disc reverses with a crocodile tooth diaphragm cutting it to relieve pressure.

### Technical features

- Non-fragmentation design
- Operating ratios up to 90% of the low end of burst tolerance
- Disc design offers high cycle life(compared with forward acting rupture disc)
- Suitable for gas service
- Standard manufacturing design range and total tolerance ensures marked rating on disk tag does not exceed the MAWP of equipment
- Withstand full vacuum without additional support
- Wide range of standard and exotic materials available
- Sizes from 25mm to 600mm
- Burst ratings from 0.21barg to 50 barg
- Use of rupture discs in combination with safety valves
- 3-dimensional stainless steel tag engraved with complete disc specifications

### Options

- Fluoropolymer liners or coatings
- Burst Indicator

\*Note: The maximum temperature rating of rupture disks supplied with liners and BI is lower than the base disk material.

### Protection of Safety Relief Valve

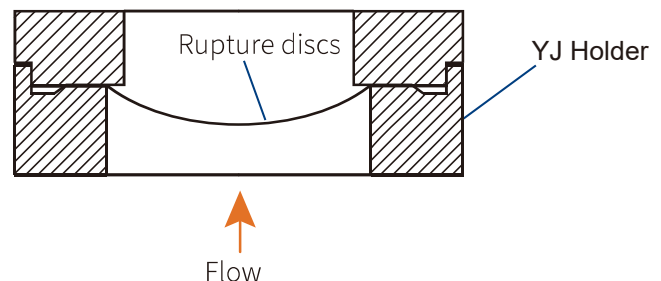
- When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.
- Tell-Tale Assembly: Pressure Gauge, Tee, Excess Flow Valve, Tube



Before and after bursting of YE Rupture Disc



YJ Holder



Reverse acting rupture discs mount in YJ Holders



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

Disk Size		Nickel				Monel				Inconel				316L				Hastelloy C-276			
NPS [in]	DN [mm]	psig		barg		psig		barg		psig		barg		psig		barg		psig		barg	
		min,	max,	min,	max,	min,	max,	min,	max,	min,	max,	min,	max,	min,	max,	min,	max,	min,	max,	min,	max,
¾"	20	43.5	583	3	40.2	43.5	661	3	45.6	58	783	4	54	43.5	870	3	60	130.5	870	9	60
1"	25	29	486	2	33.5	29	551	2	38	36.3	653	2.5	45	29	725	2	50	87	725	6	50
1¼"	32	20.3	438	1.4	30.2	26.1	496	1.8	34.2	26.1	587	1.8	40.5	26.1	653	1.8	45	58	653	4	45
1½"	40	1.5	341	0.1	23.5	18.9	386	1.3	26.6	18.9	457	1.3	31.5	18.9	508	1.3	35	43.5	508	3	35
2"	50	11.6	262	0.8	18.1	14.5	297	1	20.5	14.5	352	1	24.3	14.5	392	1	27	29	392	2	27
2½"	65	7.3	165	0.5	11.4	14.5	187	1	12.9	14.5	222	1	15.3	14.5	247	1	17	21.8	247	1.5	17
3"	80	7.3	136	0.5	9.4	11.6	154	0.8	10.6	11.6	183	0.8	12.6	11.6	203	0.8	14	17.4	203	1.2	14
4"	100	7.3	87	0.5	6	11.6	99	0.8	6.8	11.6	117	0.8	8.1	11.6	131	0.8	9	11.6	131	0.8	9
5"	125	7.3	68	0.5	4.7	11.6	77	0.8	5.3	11.6	91	0.8	6.3	11.6	102	0.8	7	11.6	102	0.8	7
6"	150	7.3	58	0.5	4	10.2	67	0.7	4.6	10.2	78	0.7	5.4	10.2	87	0.7	6	10.2	87	0.7	6
8"	200	7.3	39	0.5	2.7	10.2	44	0.7	3	10.2	52	0.7	3.6	10.2	58	0.7	4	10.2	58	0.7	4
10"	250	7.3	33	0.5	2.3	10.2	39	0.7	2.7	10.2	46	0.7	3.2	10.2	51	0.7	3.5	10.2	51	0.7	3.5
12"	300	7.3	29	0.5	2	10.2	33	0.7	2.3	10.2	39	0.7	2.7	10.2	44	0.7	3	10.2	44	0.7	3
Max. Temp.		752°F (400°C)				806°F (430°C)				896°F (480°C)				752°F (400°C)				986°F (530°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