

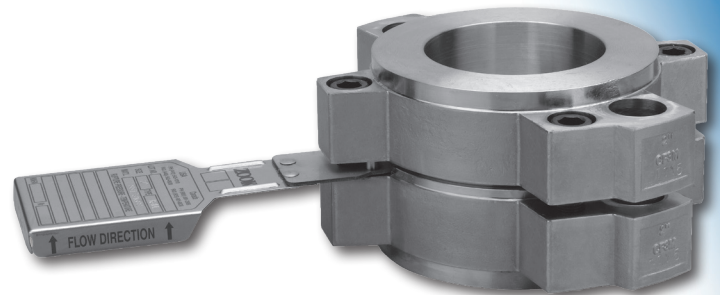


RA6 Series Reverse Acting Metal Rupture Disks

The RA Series disk of rupture disks are complementary designs to cover the majority of rupture disk applications and are designed to be used in the RAH Series disk holder.

Features

- Designed for Non-fragmentation
- Operating ratios up to 95% of the low end of burst tolerance
- Disk design offers high cycle life
- Suitable for liquid, gas, or two-phase applications
- Standard manufacturing design range and total tolerance ensures marked rating on disk tag does not exceed the MAWP of equipment
- Withstands full vacuum without vacuum support
- Wide range of standard and exotic materials available
- Withstands back pressure up to the positive set pressure of the disk
- Sizes from 1" (25 mm) through 12" (300 mm)
- Burst ratings from 12 psig (0.83 barg) to 200 psig (13.79 barg)
- Resists product build-up. The smooth convex side of the disk is exposed to the process media
- Damage ratio of 1.0 or less
- Unique alignment pin design ensures proper disk orientation into RAH Series disk holder
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- ASME UD, CE (PED), and TÜV compliance available



RA6 Series disk mounts into RAH Series disk holder (refer to RAH Series data sheet)

Options

RA6-L* A process side PFA Teflon liner provides protection from corrosive media.

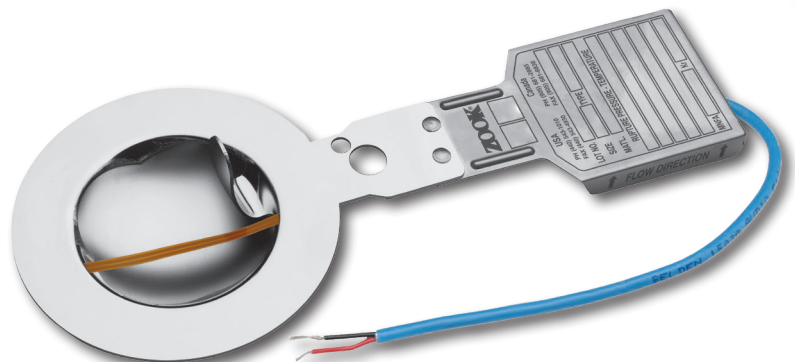
RA6-BI* Equipped with ZOOK's Integral Burst Indicator.

RA6+ Factory tested to 100% of the low end of the tolerance to insure no disks will burst low.

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

Safety Relief Valve Protection

When a disk is mounted under a Safety Relief Valve, the working components of the valve are isolated from hostile environments.



RA6 Series Specifications

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

Disk Size	Minimum Burst Pressure						Maximum Burst Pressure		MNFA in ² (mm ²)		
	316	Inconel 600	Monel 400	Nickel 200/201	Hastelloy C276	RA6-L	RA6-BI	Liquid		Gas	
1"	26	26	26	26	40	+8 ¹	Same as minimum material	Same as minimum material	200	144	0.86
25 mm	1.79	1.79	1.79	1.79	2.89	+0.55			13.79	9.93	554
1-1/2"	22	20	20	20	22	Same as minimum material			167	120	2.00
40 mm	1.52	1.38	1.38	1.38	1.51				11.52	8.28	1,290
2"	20	18	18	18	20				118	100	3.36
50 mm	1.38	1.24	1.24	1.24	1.38				8.14	6.90	2,167
2-1/2"	19	17	17	17	20				93	83	4.79
64 mm	1.31	1.17	1.17	1.17	1.38				6.41	5.72	1,612
3"	18	16	16	16	18				68	65	7.25
80 mm	1.24	1.10	1.10	1.10	1.24				4.69	4.48	4,677
4"	16	14	14	14	16				69	55	12.53
100 mm	1.10	0.97	0.97	0.97	1.10				4.76	3.79	8,083
6"	14	12	12	12	14				67	45	26.59
150 mm	0.97	0.83	0.83	0.83	0.97				4.62	3.10	17,154
8"	12	12	12	12	12				54	35	45.48
200 mm	0.83	0.83	0.83	0.83	0.83				3.72	2.41	29,341
10"	12	12	12	12	12				46	30	70.52
250 mm	0.83	0.83	0.83	0.83	0.83				3.17	2.07	45,496
12"	12	12	12	12	12				38	26	98.33
300 mm	0.83	0.83	0.83	0.83	0.83				2.62	1.79	63,438
Max. Temp.	900°F (482°C)	900°F (482°C) ²	800°F (427°C)	750°F (399°C)	900°F (482°C)		500°F (260°C)	400°F (204°C)			

Note: For materials, sizes, burst ratings and temperatures not shown, contact ZOOK

¹ Add pressure to minimum for metal

² Contact ZOOK for higher temperatures

Manufacturing Design Range & Total Performance Tolerance

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

Certified Flow Resistance Factors

Krl (Liquid)	Krg (Gas)
0.98	0.80

Teflon - TM The Chemours Company
 Inconel - TM Special Metals Corporation
 Monel - TM Special Metals Corporation
 Hastelloy - TM Haynes International



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Safety through knowledge and performance.