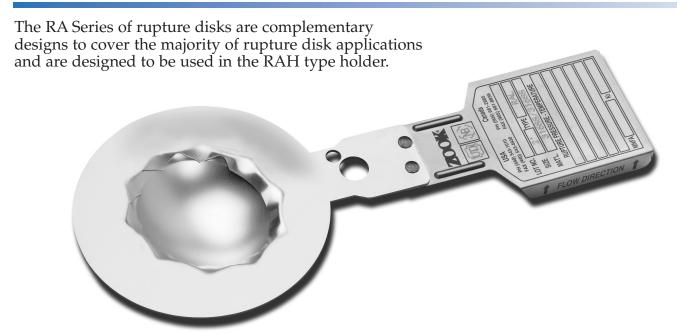


# **RA4 Series**Reverse-Acting Metal Rupture Disks



#### **Features**

- Designed for Non-fragmentation
- Operating ratios up to 90% of the low end of burst tolerance
- Disk designs offer high cycle life (when compared to forward-acting design disks)
- Certified for liquid, gas, or two-phase applications
- Standard manufacturing ranges of 0%, -5%, and -10% 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
- Sizes from 1" (25mm) through 24" (600mm)
- Burst ratings from 3 psi (0.21 barg) to 40 psig (2.76 barg)
- Resists product build-up. The smooth convex side of the disk is exposed to the process media
- Unique alignment pin design ensures proper disk orientation into holder
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- ASME UD, CE, and TUV compliance available

#### **Safety Relief Valve Protection**

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

#### **Option Liners**

TFE liners are available to provide protection from corrosive media. *Note that the maximum temperature ratings for disks suppled with liners is lower than an unlined disk.* 

## Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

RA4 Series Minimum and Maximum Pressure Ratings – psig (barg) @ 72°F (22°C)

	Minimum Burst Pressures – psig @ 72°F (barg @ 22°C)								Maximum				
Disk Size	With Liner	316SS		Inconel		Monel		Nickel		Burst P	ressure	MNFA in² (cm²)	
DISK SIZE	(RA4-L)	Liquid	Gas	Liquid	Gas	Liquid	Gas	Liquid	Gas	Liquid	Gas	(6.1.)	
1"	18	13	13							40	40	0.86	
25 mm	(1.24)	(0.9)	(0.9)							(2.76)	(2.76)	(5.5)	
1-1/2"	14	9	9	CONTACT ZOOK					25	25	1.63		
40 mm	(0.97)	(0.62)	(0.62)						(1.72)	(1.72)	(10.50)		
2"	8	6	6						25	25	2.78		
50 mm	(0.55)	(0.41)	(0.41)						(1.72)	(1.72)	(17.90)		
3"	7	4	4						25	25	5.69		
80 mm	(0.48)	(0.28)	(0.28)						(1.72)	(1.72)	(36.70)		
4"	5	3	3						20	20	9.51		
100 mm	(0.34)	(0.21)	(0.21)		for Pressure					(1.38)	(1.38)	(61.40)	
6"	3	2	2		10	LIT	essu	ire		18	18	19.46	
150 mm	(0.21)	(0.14)	(0.14)		Specifications					(1.24)	(1.24)	(125.50)	
8"	3	2	2							18	18	33.28	
200 mm	(0.21)	(0.14)	(0.14)							(1.24)	(1.24)	(214.70)	
10"	3	2	2							14	14	50.78	
250 mm	(0.21)	(0.14)	(0.14)							(0.97)	(0.97)	(327.60)	
12"	3	2	2							14	14	71.97	
300 mm	(0.21)	(0.14)	(0.14)							(0.97)	(0.97)	(464.30)	
Max. Temp.	500°F (260°C)	900°F (	(482°C)	900°F	(482°C)	900°F (	482°C)	750°F (	399°C)				

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

# Manufacturing Range / Burst Tolerance psig (barg) @ 72°F (22°C)

Specified Burst Pressure Rating	Manufacturing Ranges	Burst Tolerance		
1 to below 5		+/-0.50		
(0.07 to below 0.34)		(+/-0.03)		
5 to below 10		+/-0.80		
(0.34 to below 0.69)		(+/-0.06)		
10 to below15	0%, -5%, -10%	+/-1.30		
(0.69 to below 1.03)		(+/-0.09)		
15 to 40		+/-2.00		
(1.03 to 2.76)		(+/-0.14)		

#### 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

Disk Type	K <sub>rl</sub> (Liquid)	K <sub>rg</sub> (Gas)			
RA4 Series	1.63	1.63			

RA4 Series Disk mounts into RAH Series Disk Holder (refer to ZOOK product bulletin 475100)



Monel – TM Huntington Alloys Inconel – TM International Nickel



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