



FS-INVERTED Type Fluoropolymer Sintered Rupture Disks

...the best choice for highly corrosive and broad temperature range applications

ZOOK's new Fluoropolymer Sintered Graphite Rupture Disk offers enhanced features when compared to resin impregnated graphite disks. The Fluoropolymer coating is sintered at a high temperature onto a graphite blank. The durable coating seals the graphite material *enhancing the corrosive capability* and allows the disk to operate at sub-zero to elevated temperatures with *minimal* effect on the burst performance of the rupture disk.



FS-INVERTED type disk shown with optional armor

- Non-stick surface conforms to FDA regulations
- Resists product build-up – only the coated flat surface of the disk is exposed to the process medium
- Durable coating offers exceptional corrosion resistance
- Sizes 1" thru 24" diameters
- Designed to fit ASME B16.5 Class 150 and 300 flanges
- Burst ratings from 1.00 to 1,000 psi
- 0% manufacturing range is standard
- Operating pressures to 90% of the disk's marked burst pressure (Contact ZOOK for operating ratio for burst pressures below 40 psig)
- Extended temperature range: -290°F to +500°F (-179°C to +260°C)
- Vacuum support not required for disks with burst pressures of 25 psig and above (Use FS-V Inverted Type for vacuum service per Bulletin no. 6600)
- ASME UD marking available – Certified flow resistance factor (K_{rgl}) = 0.64

Dimensions and Specifications

Nominal Disk Size (inches)	Minimum net flow area MNFA (sq. inches)	ASME B16.5 Class 150 Disk Dimensions (inches)			ASME B16.5 Class 300 Disk Dimensions (inches)			Burst Ratings (psig)■		
		Diameter		Thickness*	Diameter		Thickness*	Min.	Max.	
		I.D.	O.D.		I.D.	O.D.			Class 150	Class 300
1	0.78	1	2-1/2	7/8	1	2-3/4	1	20	1000	1000
1-1/2	1.76	1-1/2	3-1/4	7/8	1-1/2	3-5/8	1	20	1000	1000
2	3.14	2	4	7/8	2	4-1/4	1	6	300	400
3	7.06	3	5-1/4	7/8	3	5-3/4	1-1/4	6	300	400
4	12.56	4	6-3/4	7/8	4	7	1-1/4	5	250	400
6	28.27	6	8-5/8	7/8	6	9-3/4	1-3/4	4	170	300
8	50.02	8	10-7/8	1-1/8	8	12	2-1/4	3	170	300
10	78.53	10	13-1/4	1-1/2	▲	▲	▲	2	150	▲
12	113.09	12	16	2	▲	▲	▲	1	150	▲
14	137.88	13-1/4	17-5/8	2-1/4	▲	▲	▲	1	150	▲
16	182.65	15-1/4	20-1/8	2-1/2	▲	▲	▲	1	150	▲
18	233.70	17-1/4	21-1/2	2-3/4	▲	▲	▲	1	below 150	▲
20	291.03	19-1/4	23-3/4	3	▲	▲	▲	1	below 150	▲
24	424.55	23-1/4	28-1/8	3	▲	▲	▲	1	below 150	▲

* Standard disk thickness does not include gaskets. ▲ For sizes and burst ratings not shown, Contact ZOOK

■ Reference ZOOK General Graphite Bulletin no. 6000 for armoring requirements and burst tolerances.

Note: Maximum pressure rating of Class 150 flanges is 290 psig @ 100°F (38°C). Class 300 flanges is 750 psig @ 100°F (38°C). The maximum pressure rating is lower at higher temperatures. Reference ASME/ANSI B16.5

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