

Gaskets



Gaskets used with graphite disks are stocked in the following materials: Neoprene, Non-asbestos, solid PTFE, and PTFE envelope. Gaskets can be supplied loose or attached to the disk (Note: field replacement of gaskets NOT recommended on TWO-WAY Disks or Insulated Units)

When supplying your own gaskets, follow dimensions in the chart, especially the inside diameter which provides proper clearance to ensure accurate burst. 1/8" thick gasket is recommended. Gaskets for INSULATED Disks are made from high-temperature material and are always supplied attached.

Gasket Dimensions

Nominal Disk Sizes	Flanges			
	ANSI Class 150		ANSI Class 300	
	I.D.	O.D.	I.D.	O.D.
1/2"	7/8"	1-3/4"	7/8"	2"
3/4"	1-1/8"	2-1/8"	1-1/8"	2-1/2"
1"	1-5/16"	2-1/2"	1-5/16"	2-3/4"
1-1/2"	1-29/32"	3-1/4"	1-29/32"	3-5/8"
2"	2-1/2"	4"	2-1/2"	4-1/4"
3"	3-3/4"	5-1/4"	3-3/4"	5-3/4"
4"	5"	6-3/4"	4-3/4"	7"
6"	7-1/8"	8-5/8"	7-1/8"	9-3/4"
8"	8-7/8"	10-7/8"	9"	12"
10"	11-5/8"	13-1/4"	N/A	N/A
12"	13-3/4"	16"	N/A	N/A
14"	14-1/2"	17-5/8"	N/A	N/A
16"	17"	20-1/8"	N/A	N/A
18"	19-1/2"	21-1/2"	N/A	N/A
20"	21-3/4"	23-3/4"	N/A	N/A
24"	25"	28-1/8"	N/A	N/A

Corrosion Guide

Refer to the chart to determine which disk is best suited for your system fluid. Corrosives not shown can typically be accommodated by our unlined Graphite Disks. If in doubt, use the DUPLEX Disk or contact ZOOK to obtain a material sample for testing.

INSULATED Disks cannot be used with liquids, hydro-fluoric and phosphoric acids or concentrated alkalis.

Chemicals requiring ZOOK Duplex Type Disk. F= Specify Duplex Disk with FEP Liner	
Aluminum Hydroxide	Iodine – F
Aststine	Lithium
Bromine – F	Nitric Acid
Bromine (water) – F	Nitrous Acid
Calcium Chlorate	Nitrous Oxide
Calcium Hydroxide	Oleum
Calcium Hypochlorite	Potassium (Liquid)
Castor Oil	Potassium Chlorate
Caustic Potash	Potassium Hydroxide
Caustic Soda	Potassium Hypochlorite
Chloral – F	Potassium Persulfate
Chlorine Trifluoride – F	Rubidium (Liquid)
Chlorobenzene – F	Sodium Chlorate
Chloroform – F	Sodium Hydroxide
Chromic Acid	Sodium Hypochlorite
Francium	Sulfuric Acid
Hydrofluoric Acid	Sulfurous Acid
Hydrogen Peroxide	Sulfur Trioxide (Oleum)

Standard liner materials is PTFE. Other liner materials available upon request: FEP, PFA, Kynar, Haylar

The information in this chart should be used as a general guide to the selection of the suitable material. Variations in the chemical behavior could be different due to factors such as temperature, pressure, concentration or mixture of chemicals. While utmost care was used in compiling this chart, we assume no responsibility for it's accuracy and completeness. Specifications are subject to change without notice.

Interchanging with Other Manufacture's Product

ZOOK's manufacturing process utilizes synthetic graphite impregnated with a particular resin utilizing a proprietary process; therefore, it is not a safe assumption that different brands of graphite rupture disks are equal and interchangeable.

WARNING

If a disk ruptures, material may:

- vent at high velocity with significant reaction thrust force
- contain disk particles and other solids and liquids
- be toxic or flammable.

The end user must make provisions to prevent personal injury and equipment damage. Use of disks described in this bulletin are intended for use only by persons with requisite technical skill and at their own discretion and risk. Because application, installation, and use are beyond our control, we make no warranties expressed or implied and do not assume any liability exceeding purchase price of the disk.

It is the responsibility of the end user to fully understand his process and determine the disk needed to properly protect the system.



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