



Manufacturing Lot

- "A lot of rupture disks are those disks manufactured of a material at the same time, of the same size, thickness, type, heat, and manufacturing process including heat treatment" ASME code Sec UG 127
- A minimum of two rupture disk samples are destructively tested to certify a particular lot for a given rating



ZOOK

0.0%

• The desired burst pressure rating

Specified Disk Temperature

 The temperature of the disk when the disk is expected to burst. Also known as the coincident temperature (Specified by the user)









Example:

ZOOK's URA type metal disks and graphite type disks offer a 90% operation ratio. This means that you can safely operate up to 90% of the disks marked burst pressure before effecting a disk's performance.

If the disk was specified with a minus 10% MDR and the requested burst rating is 100 psi; the disk will be marked between 90.00 and 100.00 psig.

Therefore, the maximum recommended operating pressure is 81.00 psig.

PRODUCE Since







<section-header><list-item><list-item><list-item>



Certification Criteria

- The average of the test results must fall within the Manufacturing range, when a manufacturing range is applied
- Both test results must fall within the rupture tolerance



Disk Design Classifications and Operating Ratios			
	Series	Operating Ratio	Classification
	All Graphite	90%	Fragmenting
	URA/SRA/SB	90%	Non-Fragmenting
	SFAZ	85%	Non-Fragmenting
	D/ProPos/ProVac	80%	Minimal Fragmenting
	PB	70%	Fragmenting
	ARD	50%	Minimal Fragmenting



Temperature Affect on Rupture Disks

- Disk material becomes weaker as temperature rises <u>above rated</u> <u>temperature</u>, lowering the burst rating
- If disk is rated at an elevated temperature and is exposed to excessive pressure <u>at a lower</u> <u>temperature</u>, the burst rating is raised



ZOOK

Additional Information:

For additional information on ZOOK rupture disks and products, please visit us by any of the following methods:

- On the web at www.zook.cc
- Toll free USA at 800-543-1043
- Local at 440-543-1010
- By fax at 440-543-4930

