

PCR RUPTURE DISK

The Oseco PCR is a cross-scored, reverse-buckling rupture disk. Reversal occurs when the disk reaches the rated pressure and it opens along the score lines. Since there are no knife blades, the flow is unrestricted.

The PCR is excellent for relief valve isolation (gas/vapor service) and excels in extreme cycling or high vacuum/back-pressure applications.

The PCR is Oseco's compression-loaded, high-performance rupture disk.



Oseco PCR Rupture Disk

- Sizes 1" through 8" standard with 10" and 12" available upon special request.
 - Standard materials are 316 Stainless Steel, Inconel®-600, Monel®-400, and Nickel-200/201. For highly corrosive applications, fluoropolymer liners are available on the process side of the PCR rupture disk.
 - Designed for gas or vapor applications only.
 - Excellent service life in high-cycle applications.
 - Excellent for vacuum service without an additional vacuum support.
 - Non-fragmenting design.
 - Excellent service life in applications operating up to 90% of the rated burst pressure.
 - Non-torque-sensitive.
 - Burst tolerance:
 - ± 5% for disk ratings > 40 psig
 - ± 2 psig for disks rated ≤ 40 psig
 - If damaged or installed incorrectly, the PCR will fail at a maximum of 1.5 times its rated pressure when the disk is free vented.
 - Manufacturing ranges:
 - 0%, 5% & 10% manufacturing ranges are available in all standard materials of construction.
- Note:** For 5% & 10% manufacturing ranges, the total manufacturing range is placed on the minus side of the requested burst pressure.

TABLE 1

PCR Minimum & Maximum Burst Pressure @ PSIG @ 72° F

Size	Pressure	316 S.S.	Inconel	Monel	Nickel
1"	Minimum	114	132	94	58
	Maximum	1250	1250	1260	1260
1.5"	Minimum	185	86	86	71
	Maximum	1150	1150	1025	1025
2"	Minimum	145	76	75	45
	Maximum	1150	1150	1025	1025
3"	Minimum	140	60	58	49
	Maximum	1150	1150	1000	1000
4"	Minimum	112	47	50	45
	Maximum	870	870	800	870
6"	Minimum	95	45	40	30
	Maximum	800	800	700	700
8"	Minimum	95	45	40	30
	Maximum	700	700	700	700
Maximum Temp. (° F)		900	900	800	750

SENSORS

Sensors that can be used with the Oseco PCR are the SVT, and AMS.

HOLDERS

The PCR is most commonly used in the PRDI non-torque-sensitive insert-style holder. The PCR may also be used in the PRDI (P) pre-torqued holder as well as PRDH bolted holders.