

PCR

PRECISION CUT REVERSE

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

- Sizes 1" through 12"
- Standard materials are 316 Series Stainless Steel, Inconel® 600, Monel®, and Nickel. For highly corrosive applications, fluoropolymer liners are available on the process side of the PCR rupture disc
- Designed for gas or vapor applications only
- Commonly used in SF6 switchgear
- Excellent service life in high-cycle applications
- Excellent for vacuum service without an additional vacuum support
- Non-fragmenting design
- Non-torque sensitive
- If damaged or installed incorrectly, the PCR will fail at a maximum of 1.5 times its rated pressure when the disc is free vented
- ASME Approved

PCR

The Oseco PCR is a cross-scored, reverse-buckling rupture disc. Reversal occurs when the disc 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.



COMMON APPLICATIONS

In-place testing of safety relief valves

OPERATING RATIO

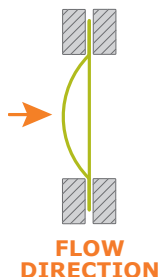
90%

BURST TOLERANCE

±5% above 40 psig
±2psig at or below 40 psig

MANUFACTURING RANGE

0%



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Related products

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AMS

HOLDERS

PRDI
PRDI (P)
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Let us help you with all your pressure relief questions.
Contact Oseco at **800-395-3475**
or email us at info@oseco.com.

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PCR Minimum & Maximum Burst Pressure @ 72° F (psig) / 22° C (barg)

Size			316 S.S.	Nickel	Inconel	Monel
1"	MIN	psig barg	200 13.8	100 6.9	140 9.7	150 10.3
	DN 25	MAX	1250 86.2	1250 86.2	1250 86.2	1250 86.2
1.5"	MIN	psig barg	185 12.8	85 5.9	95 6.5	90 6.2
	DN 40	MAX	1000 68.9	1000 68.9	1000 68.9	1000 68.9
2"	MIN	psig barg	170 11.7	65 4.5	80 5.5	75 5.2
	DN 50	MAX	1000 68.9	1000 68.9	1000 68.9	1000 68.9
3"	MIN	psig barg	155 10.7	55 3.8	70 4.8	65 4.5
	DN 80	MAX	1000 68.9	1000 68.9	1000 68.9	1000 68.9
4"	MIN	psig barg	135 9.3	45 3.1	60 4.1	55 3.8
	DN 100	MAX	800 55.2	800 55.2	800 55.2	800 55.2
6"	MIN	psig barg	95 6.5	35 2.4	50 3.4	45 3.1
	DN 150	MAX	800 55.2	800 55.2	800 55.2	800 55.2
8"	MIN	psig barg	-- --	35 2.4	45 3.1	40 2.8
	DN 200	MAX	-- --	700 48.3	700 48.3	700 48.3
10"	MIN	psig barg	CONSULT FACTORY			
	DN 250	MAX				
12"	MIN	psig barg	CONSULT FACTORY			
	DN 300	MAX				
Max Temp	deg. F deg. C		900 482.2	750 398.9	900 482.2	800 426.7

Maximum Temperature for all Teflon Lined discs - - 500 Degree F.

Burst Tolerance

±5% above 40 psig	±2 psig at and below 40 psig
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Free Flow Area/Minimum Net Flow Area (MNFA)

Disc Size (Inch)	Net Flow Area (Sq. In.)
0.75	0.39"
1	0.6
1.5	1.3
2	2.5
3	4.8
4	8
6	18
8	32
10	51.25

