

PCR

PRECISION CUT REVERSE

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. The cross-scored disc design allows this disc to achieve higher burst pressures without fragmentating.

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

Available in the Oseco Safety Cartridge™



The PCR is Oseco's cross-scored reverse buckling rupture disc.

- Excellent service life in high-cycle applications
- Commonly used in SF6 switchgear
- Excellent for gas and vapor service
- Non-fragmenting design
- Withstands full vacuum
- For highly corrosive applications, fluoropolymer liners are available on the process side of the disc
- Standard materials of construction: 316 Series Stainless Steel, Nickel, Inconel® 600, and Monel®
- Designed to meet ASME Section VIII standards

Sizes

1" - 12"

Operating Ratio

90%

K_R Value

K_{RG} : 2.17

Manufacturing Range

0%



Related Products

SENSORS

SVT
AMS

HOLDERS

PRDI
PRDI-P
PRDH

ONE PIECE UNIT

OSECO SAFETY CARTRIDGE™

Certifications

ASME UD

CRN

PED 2014/68/EU

CU/TR 032

PCR Technical Specifications

PCR Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)

SIZE inches (metric)	MATERIAL *	MIN psig (barg)	MAX psig (barg)
1" DN 25	316	200 (13.8)	1250 (86.2)
	NI	100 (6.9)	
	Inc	140 (9.7)	
	Mon	150 (10.3)	
1.5" DN 40	316	185 (12.8)	1000 (68.9)
	NI	85 (5.9)	
	Inc	95 (6.5)	
	Mon	90 (6.2)	
2" DN 50	316	170 (11.7)	1000 (68.9)
	NI	65 (4.5)	
	Inc	80 (5.5)	
	Mon	75 (5.2)	
3" DN 80	316	155 (10.7)	1000 (68.9)
	NI	55 (3.8)	
	Inc	70 (4.8)	
	Mon	65 (4.5)	
4" DN 100	316	135 (9.3)	800 (55.2)
	NI	45 (3.1)	
	Inc	60 (4.1)	
	Mon	55 (3.8)	
6" DN 150	316	95 (6.5)	800 (55.2)
	NI	35 (2.4)	
	Inc	50 (3.4)	
	Mon	45 (3.1)	
8" DN 200	316	N/A	N/A 700 (48.3) 700 (48.3) 700 (48.3)
	NI	35 (2.4)	
	Inc	45 (3.1)	
	Mon	40 (2.8)	
10" DN 250	316 NI Inc Mon	Consult Factory	Consult Factory
12" DN 300	316 NI Inc Mon	Consult Factory	Consult Factory

*Fluoropolymer liner (PFA)
Max Temperature @ 500° F

Free Flow Area/Minimum Net Flow Area (MNFA)

DISC SIZE (Inch)	NET FLOW AREA (Sq. Inch)
1	0.6
1.5	1.3
2	2.5
3	4.8
4	8
6	18
8	32
10	51.25
12	73.4

K_R Values * (Frictional Loss Factor)

K _R	PCR
K _{RG}	2.17

Burst Tolerance

+/-5% above 40 psig	+/-2 psig at or below 40 psig
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Let us help you with all your pressure relief questions. Call us at (800) 395-3475 or email us at info@oseco.com.

www.oseco.com

