

# PLR RUPTURE DISK

The Oseco PLR is a precision, low-pressure, nonfragmenting, reverse-buckling rupture disk. It offers extremely low burst pressures in an all-metal design. The armored construction of the PLR protects the disk from damage that affects the performance of other low-pressure rupture disks.

Standard disk materials are 316 Stainless Steel, Inconel®-600, Monel®-400, and Nickel-200/201. (Consult factory for other materials of construction.) For additional corrosion protection, a PFA fluoropolymer liner is available on the process side (please specify type PLRL). The top portion / retainer ring on the atmospheric side of the PLR is always 316 Stainless Steel.

The PLR is excellent for use in protecting and isolating safety relief valves. Due to the large opening characteristics, in some sizes an extended outlet holder may be required when installed directly under an SRV. See Table 1 for specifications.

*The PLR is Oseco's low-pressure, reverse-buckling disk*



### Oseco PLR Rupture Disk

- Sizes 1" through 8" standard with 10" and 12" available upon special request.
- Excellent for gas or liquid service applications.
- Excellent for high-cycling service.
- Excellent for vacuum service.
- Damage-resistant due to unique armor construction.
- Manufacturing ranges:  
-4 psig, -2 psig, and 0 psig ≤ 40 psig  
0%, 5% & 10% Range-Available > 40 psig
- Burst Tolerance:  
± 5% for disk ratings > 40 psig  
± 1 psig for disks rated < 15 psig  
± 2 psig from 15 to 40 psig
- Reverse-buckling design.
- 3-D tag verifies correct installation.
- Nonfragmenting design.
- Ideal for safety relief valve isolation. **See Table 1.**
- Excellent service life in applications operating up to 90% of rated burst pressure.

**TABLE 1**  
**PRDI Insert Rupture Disk Holder Dimensional Data**

Size in Inches	ANSI Rating	O.D.	Overall Height	
			Standard PRDI	PRDI: For Safety Relief Valve Isolation
1"	150 #	2.5"	1.75"	1.75"
1.5"	150 #	3.25"	1.75"	2.75"
2"	150 #	4.0"	1.75"	3.0 "
3"	150 #	5.25"	1.93"	3.9375"
4"	150 #	6.75"	2.31"	5.6250"
6"	150 #	8.62"	2.81"	8.125"
8"	150 #	10.87"	3.43"	10.375"

**TABLE 2**

**PLR: Minimum / Maximum Burst Pressure @ PSIG @ 72° F**

Size in Inches	Pressures	Nickel	Monel	Inconel	316 S/S	Hast. C	Minimum Pressure w/fluoropolymer liner
1	Minimum	12	11	13	12	12	17.5
	Maximum	60	80	56	91	100	-
1.5	Minimum	7	6	10	9	19	11
	Maximum	77	104	116	132	165	-
2	Minimum	8	6	8	6	9	8
	Maximum	50	67	60	92	118	-
3	Minimum	4	3	4	3	4	6
	Maximum	35	42	45	64	96	-
4	Minimum	3	2	3	2	3	4.5
	Maximum	39	50	35	65	91	-
6	Minimum	2	2	2	2	2	3
	Maximum	29	49	40	50	78	-
8	Minimum	2	2	2	2	2	3
	Maximum	30	50	40	50	75	-
Maximum Temp ° F.		750	750	800	800	800	500
Not Available in Aluminum or sizes other than those listed							
Maximum Temperature Allowable with fluoropolymer liner is 500° F*.							

\* Certain types of fluoropolymer have different temperature limitations, PFA is used unless otherwise specified. Temperature maximums are subject to decrease if PFA is not used.

## SENSORS

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

## HOLDERS

Holders that can be used with the Oseco PLR are the PRDI and the PRDI(P) insert and insert pre-torqued holders.