

PLR

PRECISION LOW PRESSURE REVERSE BUCKLING

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

- Sizes 1" through 8" standard with 10" and 12" available upon request
- Excellent for gas or liquid service
- Excellent for high-cycling service
- Excellent for vacuum service
- Damage-resistant due to unique armor construction
- Reverse-buckling design
- 3-D tag verifies correct installation
- Non-fragmenting design
- Ideal for safety relief valve isolation

PLR

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

Standard disc materials are 316 Series Stainless Steel, Inconel® 600, Monel®, and Nickel. For additional corrosion protection, a PFA fluoropolymer liner is available on the process side. The top portion/retainer ring on the atmospheric side of the PLR is always 316 Series 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.

COMMON APPLICATIONS

Safety relief valve isolation —Low Pressure

OPERATING RATIO

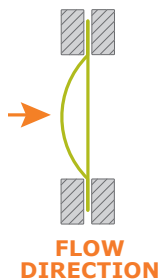
90%

BURST TOLERANCE

±10% at or above 40 psig
±3 psig from 5-40 psig
± 1.5 psig below 5 psig

MANUFACTURING RANGE

0%



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Related products

SENSORS

- SVT
- AMS

HOLDERS

- PRDI
- PRDI (P)

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

Size			Nickel	Monel	Inconel	316 S.S.	Hastelloy C	Minimum Pressure w/fluoropolymer liner	
1"	MIN	psig barg	12 0.8	11 0.8	13 0.9	12 0.8	12 0.8	17.5 1.2	
	DN 25	MAX	60 4.1	80 5.5	56 3.9	91 6.3	100 6.9	-- --	
1.5"	MIN	psig barg	7 0.5	6 0.4	10 0.7	9 0.6	19 1.3	11 0.8	
	DN 40	MAX	77 5.3	104 7.2	116 8.0	132 9.1	165 11.4	-- --	
2"	MIN	psig barg	8 0.6	6 0.4	8 0.6	6 0.4	9 0.6	8 0.6	
	DN 50	MAX	50 3.4	67 4.6	60 4.1	92 6.3	118 8.1	-- --	
3"	MIN	psig barg	4 0.3	3 0.2	4 0.3	3 0.2	4 0.3	6 0.4	
	DN 80	MAX	35 2.4	42 2.9	45 3.1	64 4.4	96 6.6	-- --	
4"	MIN	psig barg	3 0.2	2 0.1	3 0.2	2 0.1	3 0.2	4.5 0.3	
	DN 100	MAX	39 2.7	50 3.4	35 2.4	65 4.5	91 6.3	-- --	
6"	MIN	psig barg	2 0.1	2 0.1	2 0.1	2 0.1	2 0.1	3 0.2	
	DN 150	MAX	29 2.0	49 3.4	40 2.8	50 3.4	78 --	-- --	
8"	MIN	psig barg	2 0.1	2 0.1	2 0.1	2 0.1	2 0.1	3 0.2	
	DN 200	MAX	30 2.1	50 3.4	40 2.8	50 3.4	75 --	-- --	
10"	MIN	psig barg	<i>CONSULT FACTORY</i>						
	DN 250	MAX							
12"	MIN	psig barg	<i>CONSULT FACTORY</i>						
	DN 300	MAX							
Max Temp	deg. F deg. C		750 398.9	750 398.9	800 426.7	800 426.7	800 426.7	500 260	

* 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.

Burst Tolerance

±10% at or above 40 psig	±3 psig from 5 to 40 psig	±1.5 psig below 5 psig
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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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