

PLR

PRECISION LOW PRESSURE REVERSE BUCKLING

The Oseco PLR 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 the other low-pressure rupture discs.

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.

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

- Excellent service life in high-cycle applications
- Damage-resistant due to unique armor construction
- Ideal for safety relief valve isolation
- Excellent for gas or liquid service
- Non-fragmenting design
- Withstands full vacuum
- Standard materials of construction: 316 Series Stainless Steel, Nickel, Inconel® 600, Hastelloy® C, and Monel®



Sizes
1" - 12"

Operating Ratio
90%

Manufacturing Range
0%



Related Products

SENSORS

SVT
AMS

HOLDERS

PRDI
PRDI-P
PRDH

Certifications

PED 2014/68/EU
CU/TR 032

PLR Technical Specifications

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

SIZE inches (metric)	MATERIAL	MIN psig (barg)	MIN WITH LINER (barg)	MAX psig (barg)
1" DN 25	316	12 (0.8)	17.5 (1.2)	91 (6.3)
	NI	12 (0.8)		60 (4.1)
	Inc	13 (0.9)		56 (3.9)
	Mon	11 (0.8)		80 (5.5)
	Hast C	12 (0.8)		100 (6.9)
1.5" DN 40	316	9 (0.6)	11 (0.8)	132 (9.1)
	NI	7 (0.5)		77 (5.3)
	Inc	10 (0.7)		116 (8.0)
	Mon	6 (0.4)		104 (7.2)
	Hast C	19 (1.3)		165 (11.4)
2" DN 50	316	6 (0.4)	8 (0.6)	92 (6.3)
	NI	8 (0.6)		50 (3.4)
	Inc	8 (0.6)		60 (4.1)
	Mon	6 (0.4)		67 (4.6)
	Hast C	9 (0.6)		118 (8.1)
3" DN 80	316	3 (0.2)	6 (0.4)	64 (4.4)
	NI	4 (0.3)		35 (2.4)
	Inc	4 (0.3)		45 (3.1)
	Mon	3 (0.2)		42 (2.9)
	Hast C	4 (0.3)		96 (6.6)
4" DN 100	316	2 (0.1)	4.5 (0.3)	65 (4.5)
	NI	3 (0.2)		39 (2.7)
	Inc	3 (0.2)		35 (2.4)
	Mon	2 (0.1)		50 (3.4)
	Hast C	3 (0.2)		91 (6.3)
6" DN 150	316	2 (0.1)	3 (0.2)	50 (3.4)
	NI			29 (0.2)
	Inc			40 (2.8)
	Mon			49 (3.4)
	Hast C			78 (5.4)
8" DN 200	316	2 (0.1)	3 (0.2)	50 (3.4)
	NI			30 (2.1)
	Inc			40 (2.8)
	Mon			50 (3.4)
	Hast C			75 (5.2)
10" DN 250	316	Consult Factory	Consult Factory	Consult Factory
	NI			
	Inc			
	Mon			
	Hast C			
12" DN 300	316	Consult Factory	Consult Factory	Consult Factory
	NI			
	Inc			
	Mon			
	Hast C			

*Fluoropolymer liner (PFA)
Max Temperature @ 450° F

Free Flow Area Minimum Net Flow Area (MNFA)

DISC SIZE (Inch)	NET FLOW AREA (Sq. Inch)
1	0.602
1.5	1.493
2	2.735
3	4.984
4	9.148
6	20.79
8	36
10	55.4
12	77.7

Burst Tolerance

+/-10% at or over 40 psig

+/-3 psig from 5-40 psig

+ / - 1.5 psig below 5 psig

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

