

# PRO+KRGL

PRECISION REVERSE OPERATING

PRO+KRGL • RUPTURE DISCS

## The PRO+KRGL is Oseco's high-performance rupture disc for demanding applications

- Sizes 1"-10"
- Standard materials of construction: Hastelloy® C, 316 Series Stainless Steel, Nickel, Inconel® 600, and Monel®
- Well suited for high cycling applications
- Excellent for gas or liquid service applications
- Smooth surface on process side to minimize product build-up
- Non-fragmenting design
- Elevated temperatures up to 900° F
- Non-torque-sensitive when used in Oseco PRDI holder
- Withstands full vacuum (14.7 psi) without separate vacuum support
- Ideal for safety relief valve isolation
- Fluoropolymer liner available on process side
- ASME Approved

## PRO+KRGL

The Oseco PRO+KRGL (Precision Reverse-Operating) Rupture Disc is designed and manufactured for high performance and demanding rupture disc applications. The PRO+KRGL is a fully opening perimeter-scored design, thanks to the precision scoring delivered by Oseco's unique computerized load cell technology. This process yields a high-performance disc to withstand the most difficult applications, even in corrosion-resistant material such as Hastelloy® C.



### COMMON APPLICATIONS

Safety relief valve isolation – High Pressure

### OPERATING RATIO

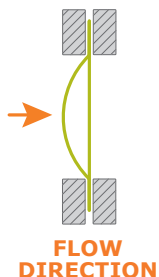
95%

### BURST TOLERANCE

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

### MANUFACTURING RANGE

0%



Related products

**SENSORS**

AMS

**HOLDERS**

PRDI

**PRO+KRGL Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)**

Size	Material	Min psig (barg)	Safety Relief Valve Isolation Max psig (barg)	Primary & Secondary Relief Max* psig (barg)
1" DN 25	316	30 (2.1)	400 (27.6)	1000 (68.9)
	NI	22 (1.5)	400 (27.6)	1000 (68.9)
	Inc	30 (2.1)	400 (27.6)	1000 (68.9)
	Mon	21 (1.4)	400 (27.6)	1000 (68.9)
	Hast C	29 (2.0)	400 (27.6)	1000 (68.9)
1.5" DN 40	316	15 (1.0)	400 (27.6)	1000 (68.9)
	NI	14 (1.0)	400 (27.6)	1000 (68.9)
	Inc	15 (1.0)	400 (27.6)	1000 (68.9)
	Mon	14 (1.0)	400 (27.6)	1000 (68.9)
	Hast C	23 (1.6)	400 (27.6)	1000 (68.9)
2" DN 50	316	9 (0.6)	300 (20.7)	1000 (68.9)
	NI	8 (0.6)	300 (20.7)	1000 (68.9)
	Inc	9 (0.6)	300 (20.7)	1000 (68.9)
	Mon	8 (0.6)	300 (20.7)	1000 (68.9)
	Hast C	9 (0.6)	300 (20.7)	1000 (68.9)
3" DN 80	316	9 (0.6)	200 (13.8)	900 (62.0)
	NI	8 (0.6)	200 (13.8)	900 (62.0)
	Inc	9 (0.6)	200 (13.8)	900 (62.0)
	Mon	8 (0.6)	200 (13.8)	900 (62.0)
	Hast C	9 (0.6)	200 (13.8)	900 (62.0)
4" DN 100	316	9 (0.6)	200 (13.8)	800 (55.1)
	NI	8 (0.6)	200 (13.8)	800 (55.1)
	Inc	9 (0.6)	200 (13.8)	800 (55.1)
	Mon	8 (0.6)	200 (13.8)	800 (55.1)
	Hast C	9 (0.6)	200 (13.8)	800 (55.1)
6" DN 150	316	7 (0.5)	100 (6.9)	750 (51.7)
	NI	6 (0.4)	100 (6.9)	750 (51.7)
	Inc	7 (0.5)	100 (6.9)	750 (51.7)
	Mon	6 (0.4)	100 (6.9)	750 (51.7)
	Hast C	7 (0.5)	100 (6.9)	750 (51.7)
8" DN 200	316	6 (0.4)	25 (1.7)	500 (34.4)
	NI	6 (0.4)	25 (1.7)	500 (34.4)
	Inc	6 (0.4)	25 (1.7)	500 (34.4)
	Mon	6 (0.4)	25 (1.7)	500 (34.4)
	Hast C	6 (0.4)	25 (1.7)	500 (34.4)
10" DN 250	316	4 (0.3)	CONSULT FACTORY	250 (17.2)
	NI	4 (0.3)	CONSULT FACTORY	250 (17.2)
	Inc	4 (0.3)	CONSULT FACTORY	250 (17.2)
	Mon	4 (0.3)	CONSULT FACTORY	250 (17.2)
	Hast C	4 (0.3)	CONSULT FACTORY	250 (17.2)

\*Minimal fragmentation. For use as primary or secondary pressure relief only.

**K<sub>R</sub> Values \*(Frictional Loss Factor)**

	PRO+	PRO+ KRGL
K <sub>RG</sub>	0.29	
K <sub>RGL</sub>		0.69

\*Per ASME

**Burst Tolerance**

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



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

**Oseco Inc**

1701 W. Tacoma  
Broken Arrow Oklahoma 74012 USA  
Tel: (918) 258-5626  
Fax: (918) 251-2809

**Free Flow Area/Minimum Net Flow Area (MNFA)**

Disc Size (Inch)	Net Flow Area (Sq. In.)
1	0.864
1.5	2.036
2	3.355
3	7.393
4	12.73
6	28.89
8	CONSULT FACTORY
10	CONSULT FACTORY



Visit the products section of [oseco.com](http://oseco.com) to ensure you have the most recent information.

[www.oseco.com](http://www.oseco.com)