

## DISC SELECTION GUIDE

A complete portfolio of solutions for all of your chemical processing needs.





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# DISC SELECTION GUIDE

••••			Opera	ating Ratio	K <sub>R</sub> Value	Size	Burst Pressure (psig)	Non- Fragmenting	Flow Direction	Service	Vacuum Support Required	Holder
FEATURED	OSECO BAFETY CARTRIDGE PAT. US. 10,228,069 B2	OSECO SAFETY CARTRIDGE <sup>™</sup> The Oseco Safety Cartridge is an innovative rupture disc solution designed to eliminate leaks, eliminate installation errors and increase safety. The patented welded design allows the three components of a traditional rupture disc system to be combined into one hermetically sealed component.	OPR+	95%	0.78 K <sub>R</sub>	1–12"	10–1160	Yes		LGV	No	One Piece Unit
			FAS	90%	0.223 K <sub>RG</sub> 0.19 K <sub>RL</sub>	1–8"	80-2000	Yes		LGV	No	One Piece Unit
	Patent pending	<b>LoKr</b> Technically advanced reverse buckling rupture disc. The best-in-class low $K_R$ value maximizes pressure relieving performance while providing superior reliability and extraordinary service life.	95%		0.22 K <sub>rgl</sub>	1–12"	10-2500	Yes		LGV	No	LKR
		<b>FAS</b> Forward acting rupture disc with the lowest K <sub>R</sub> in the industry, designed for demanding rupture disc applications.	ge 95%		0.223 K <sub>RG</sub> 0.19K <sub>RL</sub>	1–24"	40–5000	Yes		LGV	No	FRDI
• • •		<b>OPR+/OPK+</b> High performance single disc solution across a wide range of sizes and burst pressures. Compatible with our non-invasive, reusable Flo-Tel burst detection.			0.78 K <sub>rgl</sub>	1–24"	5–1160	Yes	-	LGV	No	ОРН
		<b>(F)CO</b> Designed to rupture at very low pressures, consists of a slotted top section and a Fluoropolymer or metal seal.	80%		0.5 K <sub>rgl</sub>	11/16–42"	3–1000	Yes	-	LGV	Yes	FRDI
		<b>GTM</b> Our GraphiTech flat rupture disc is manufactured from resin-impregnated graphite for use in highly corrosive applications.			0.6 K <sub>rgl</sub>	1–24"	1–400	No	→	LGV	Yes	N/A
· · ·		<b>PLR</b> Precision low-pressure rupture disc manufactured for high performance in demanding applications.			N/A	1–12"	2–165	Yes	-	LGV	No	PRDI
		<b>MV-RD</b> Domed explosion vent designed for high cycling applications such as dust collectors, bag houses, and bulk storage units that experience vacuum pressures up to 12 psig/24.4 inHG.	80%		N/A	12x12– 36x44"	1–14	Yes	N/A	N/A	No	N/A

Standard materials for rupture discs are 316 Stainless Steel, Nickel 200/201, Inconel 600, Monel 400, Hastelloy C-276. Standard material for holders is 316 Stainless Steel. Consult factory for other options.



Full product line available at osecoelfab.com



## Our Products and Services Provide Complete Peace of Mind

#### **PRODUCT LINE**



Oseco Safety Cartridge<sup>™</sup> Single piece unit eliminates multiple leak paths



Ultra High Pressure Scored Reverse Buckling Disc Assembly

**HPSR:** Single piece unit designed for a burst pressure over 6,000 psig



**High Performance Reverse Buckling Discs LoKr:** *Best-in-class low K*<sub>R</sub> *value* 



OPR+/OPK+: Non-invasive burst detection system



High Performance Forward Acting Scored Disc

**FAS<sup>TM</sup>:** Lowest  $K_R$  value available for forward acting discs



Composite Rupture Disc



Standard Rupture Disc



**Explosion Protection** 



**Burst Detection Sensors** 

### SERVICES

Engineering and Maintenance Training Seminars

Safety Surveys

**Custom Engineered Solutions** 

**Expedited Shipments** 

**Emergency Response Team** 

24/7/365 Customer Service



Let us help you with all your pressure relief questions.

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