

# Chemical Process Industry

## HIGH PERFORMANCE SOLUTIONS

		Forward-Acting	Reverse-Buckling	1-piece Leak Proof Design	Low Pressures	High Pressures	Extreme Pressures	
Fully Integrated Welded Assemblies	Safety Cartridge		●	●	●	●	●	
	HPSR		●	●	●	●	●	●
3-Piece Assemblies Rupture Disc + Holder pre-torque available	PRO+KRGL & PRDI		●			●		
	Opti-gard & OPTI		●				●	
	PCR & PRDI		●					
	FAS & FRDI	●					●	

Let us help you with all your pressure relief questions.

Contact Oseco at  
**(800) 395-3475**  
or email us at  
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**oseco** pressure intelligence

**Custom Solutions**  
Product Optimization  
& Customization, Best  
Engineered Team

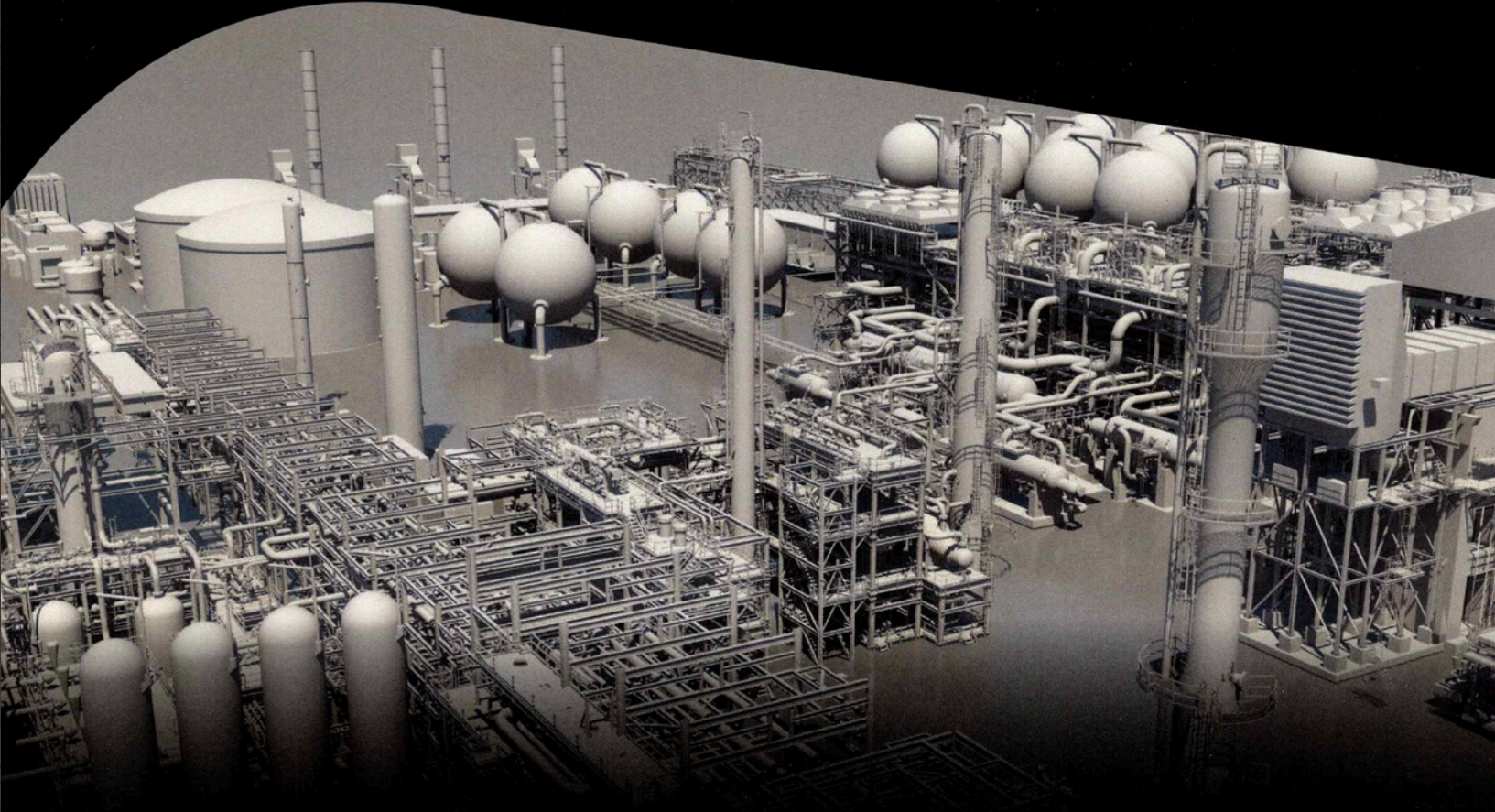
**Performance**  
Best Application  
Solutions, Product  
Performance  
Guarantee

**Reliability**  
Available 24/7/365,  
Dependable  
Delivery,  
Industry Certified,  
Emergency  
Response Team,  
Best Warranty

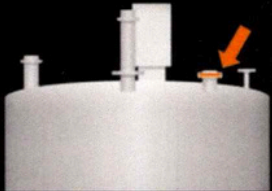
**Safety**  
Life Safety,  
Equipment Protection

**Quality**  
Continuous  
Improvement,  
Empowerment, Safe,  
Operational Excellence

**oseco** pressure intelligence



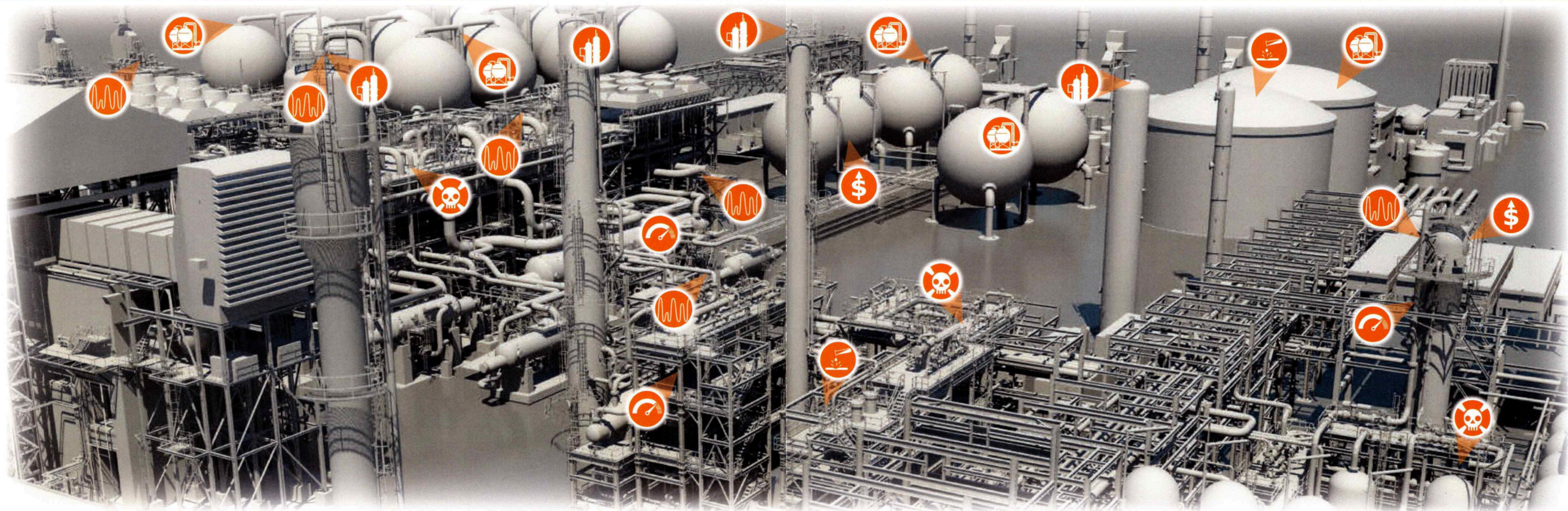
**SRV  
Protection**  
Safety Relief Valves



**Primary  
Relief**  
Processing Vessels



# O s e c o   A p p l i c a t i o n   •   G u i d e



 **High Cycling**  
  **High Cost Media**  
  **Difficult Accessibility**  
  **Corrosive Media**  
  **High Flow Vessels**  
  **Extreme Pressures**  
  **Lethal Media Service**

INTEGRATED

## SAFETY CARTRIDGE



- Non-Torque Sensitive
- Leak Proof Design
- Easy Installation
- High Performance Disc



A new patented design that eliminates leak paths by integrating the rupture disc and the holder. This solution is also non-torque sensitive, thus making it easy to install and removing any issues with torque between flanges and gaskets.

## HPSR



- Non-Torque Sensitive
- Leak Proof Design
- Easy Installation
- 2,100 - 15,000 psig
- High Cycle Design



An ideal solution for extreme pressure applications with high cycling. The HPSR design eliminates leak potential by integrating the rupture disc and holder. The design also makes this an easy solution to install.



- $K_R$  Value = 0.69
- High Cycling
- Low Pressure
- 95% Operating Ratio



The PRO+KRGL is a high performance, reverse buckling disc with excellent flow characteristics for both gas & liquid applications. It is also designed to operate under high cycling application conditions.



- $K_R$  Value = 0.78
- High Cycling
- Low/High Pressure
- 95% Operating Ratio



The Opti-Gard is an excellent reverse buckling solution for high cycle applications and wide pressure ranges, including high pressure situations.



- Fail Safe Design
- $K_R$  Value (liquid) = 0.19\*
- $K_R$  Value (gas) = 0.233\*
- Low/High Pressure
- 90% Operating Ratio



The FAS is a "Fail Safe" solution. This means that if the disc and holder were to be installed upside down by mistake, the burst pressure would be equal to or lower than the marked burst pressure value. Also, this rupture disc provides the lowest  $K_R$  value of any rupture disc available, making it a true problem solver.

\* = Industry best flow for rupture discs of this class

Contact our customer service team for assistance at **800-395-3475** or visit us at **www.oseco.com**.