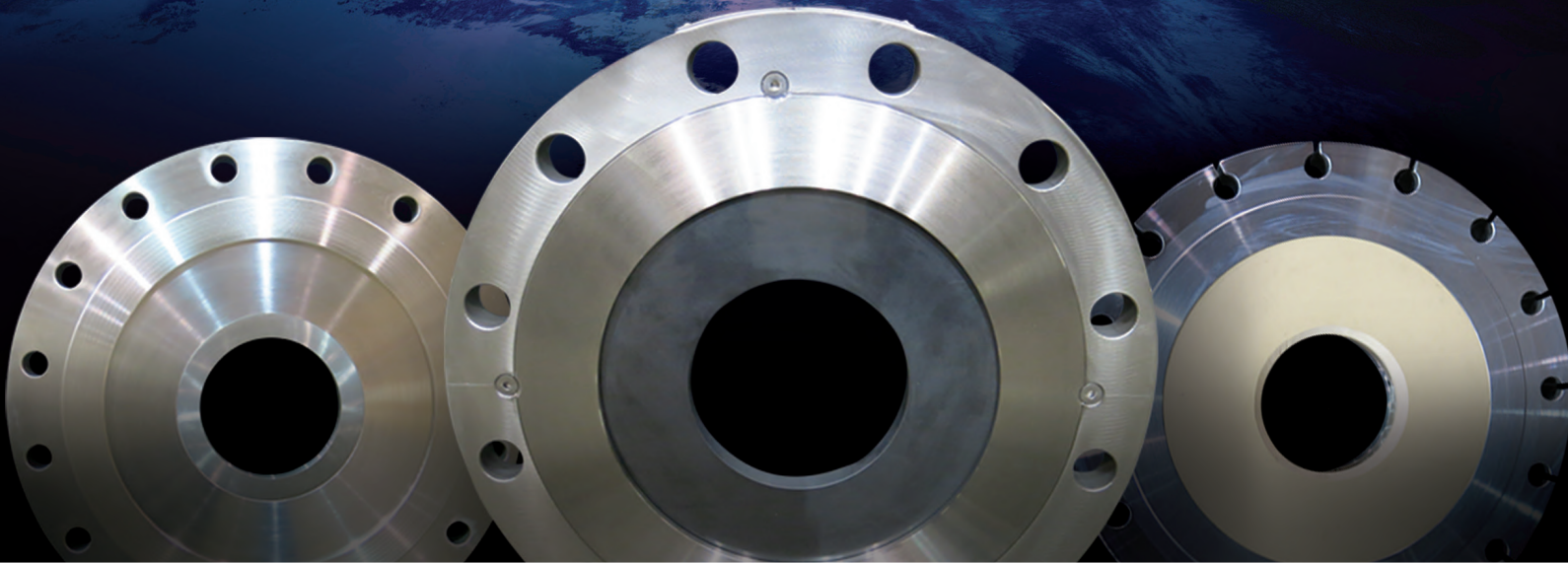


# ROCKET

— PLATES —

THE WORLD'S  
**TOUGHEST**  
ORIFICE PLATES



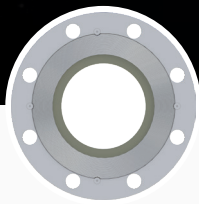
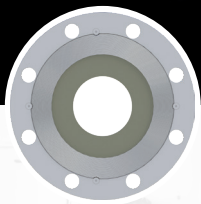
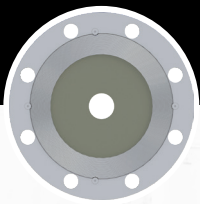
CUSTOM ENGINEERED ORIFICE PLATES FOR PRESSURE REDUCTION AND FLOW RESTRICTION.

Engineered by  
**Slurryflo**  
valve corp.

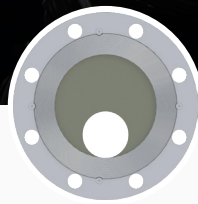
# WHAT ARE ROCKETPLATES?

RocketPlates are custom engineered orifice plates, featuring high performance materials for extreme resistance to erosion and corrosion.

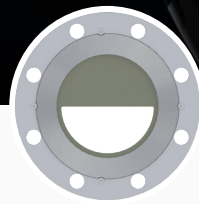
When installed with control valves in high  $\Delta P$  applications, RocketPlates share the required pressure drop, **provide back pressure to the valve, and minimize or eliminate noise and cavitation.** RocketPlates are also designed for standalone service, providing fixed pressure reduction and flow restriction.



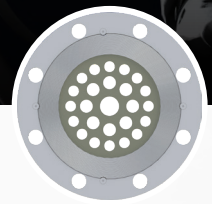
Concentric



Eccentric



Segmented



Multi

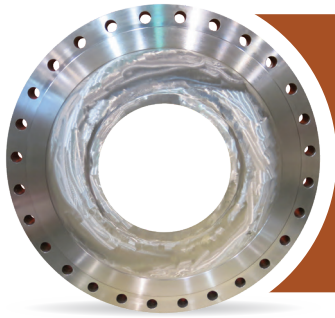
## READY TO LAUNCH?

### CUSTOM ENGINEERING

THERE ARE NO OFF-THE-SHELF ROCKETPLATES; EACH ONE IS SPECIFICALLY ENGINEERED WITH A CUSTOMIZED ORIFICE DESIGN.

The orifice can be concentric, eccentric or segmented, and the size/geometry of the opening is based on process data and customer requirements. Our multi orifice designs may also be used as a flow conditioners, minimizing the required length of straight pipe before a flow meter or similar instrument.





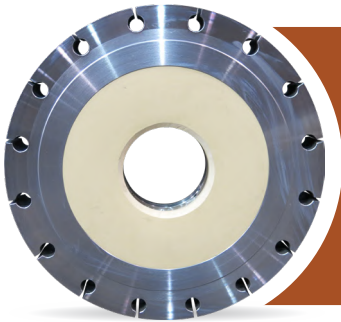
## 1-PIECE ORIFICE PLATE

Our 1-piece RocketPlates can be fabricated with or without a hard coating on the orifice ID. Bare metal plates are ideal for non-abrasive fluids, while hard coatings are applied to plates going into abrasive slurries with larger orifice diameters.



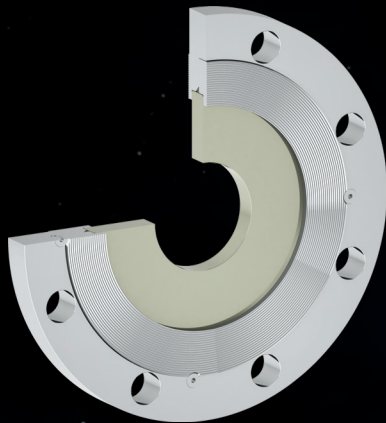
## 3-PIECE ORIFICE PLATE W/ CARBIDE INSERT

RocketPlates with sintered carbide wear inserts are designed for abrasive slurries. The carbide inserts are extremely hard, providing unparalleled wear resistance. Once the inserts do wear out, they can be replaced within minutes.

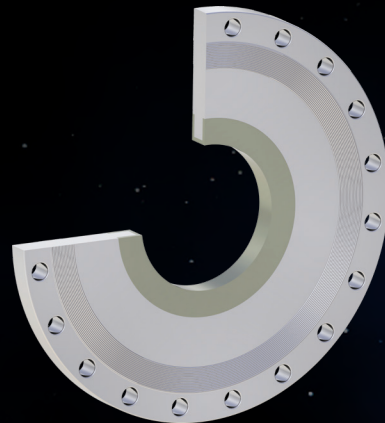


## ORIFICE PLATE W/ RUBBERIZED INLET

Rubber inlays are typically specified when slurry applications contain large particles (such as rocks). A thick rubber layer protects the inlet side of the RocketPlate; while the downstream side houses a sintered carbide insert or welded hard coating.



Rocketplate  
w/ sintered carbide



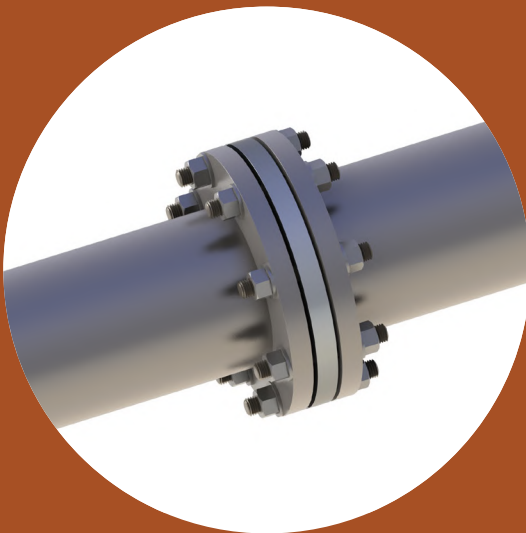
Rocketplate  
w/ welded hard coating

## SUPER-HARD MATERIALS

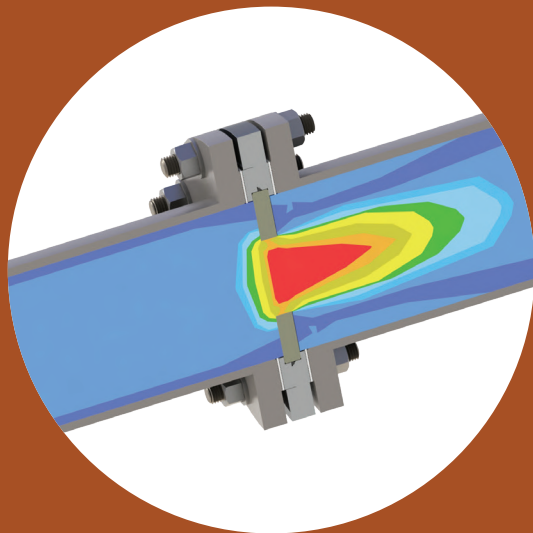
If the process media contains solids (i.e. slurry), RocketPlates are manufactured with super-hard materials for extreme abrasion resistance for the most severe services. Our 3-piece RocketPlate designs use sintered carbide discs, which are sandwiched within the plates. RocketPlates fabricated from a single piece of material (typically designed to larger orifice diameters) incorporate a wear resistant overlay to maximize service life (ex: Stellite, Tungsten carbide, Chrome carbide, etc).

# WHY CHOOSE ROCKETPLATES?

- ✦ Custom engineered orifice plates.
- ✦ Provide back pressure to control valves.
- ✦ Provide fixed pressure reduction and flow restriction.
- ✦ Minimize or eliminate noise and cavitation.
- ✦ Extreme abrasion resistance for the most severe services.
- ✦ Concentric, eccentric or segmented orifice designs.
- ✦ Dozens of standard and exotic plate materials to prevent corrosion.
- ✦ Super hard sintered carbide inserts are replaceable and interchangeable.
- ✦ Multi orifice designs for flow conditioning/stabilizing.
- ✦ Engineered with state-of-the-art flow modeling and 3D software.
- ✦ Made in Canada.



External pipe view with RocketPlate bolted between flanges.



Cross-section view showing RocketPlate with flow.

“ RocketPlates solved the level control issues on our flotation cells, and have provided a massive reduction in downtime, with fewer worn out pinch control valves.

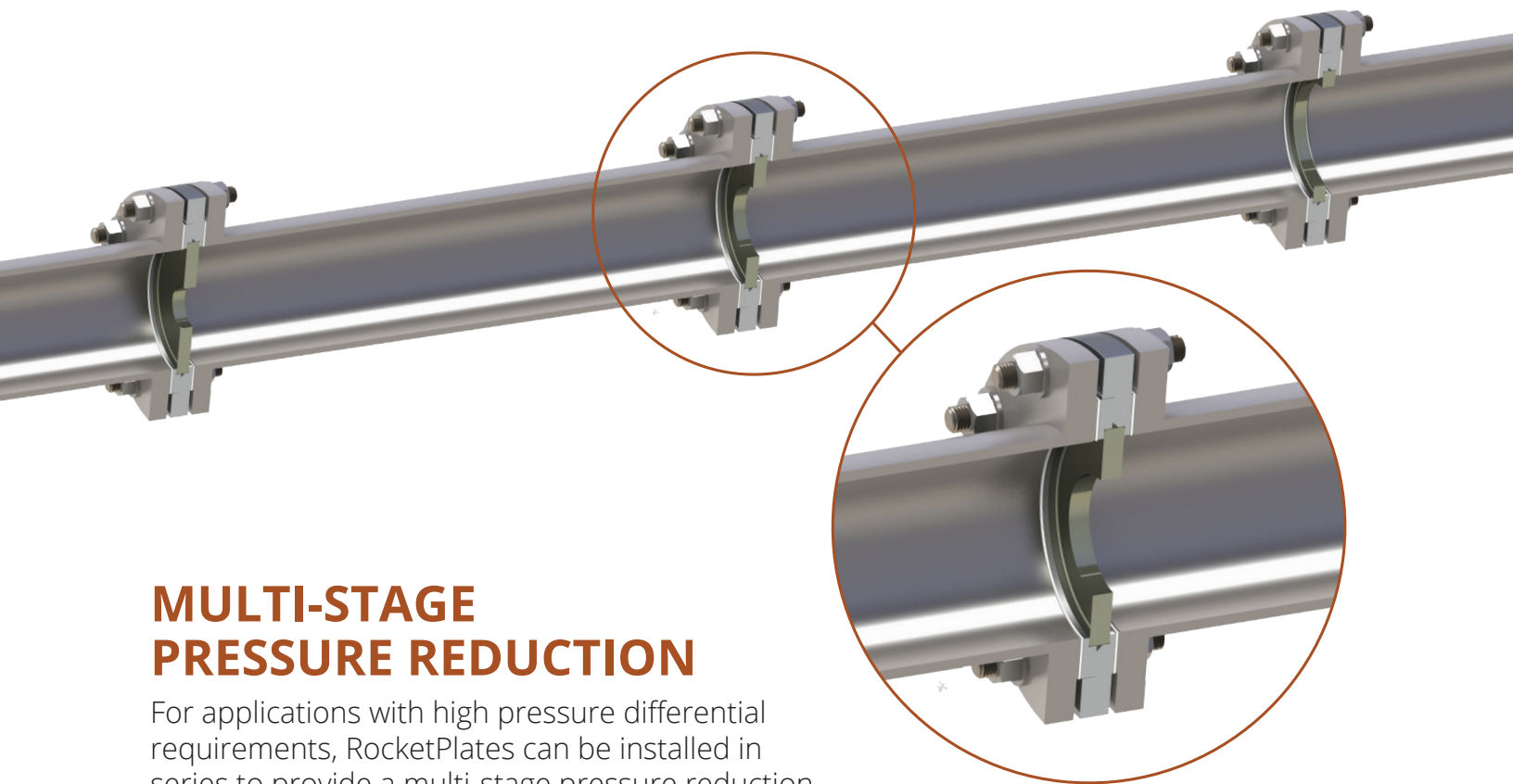
**Graeme Lamson**  
Senior Metallurgist  
Imperial Metals Corporation



“ RocketPlates in conjunction with our control valves have provided a low cost and reliable flow control solution.

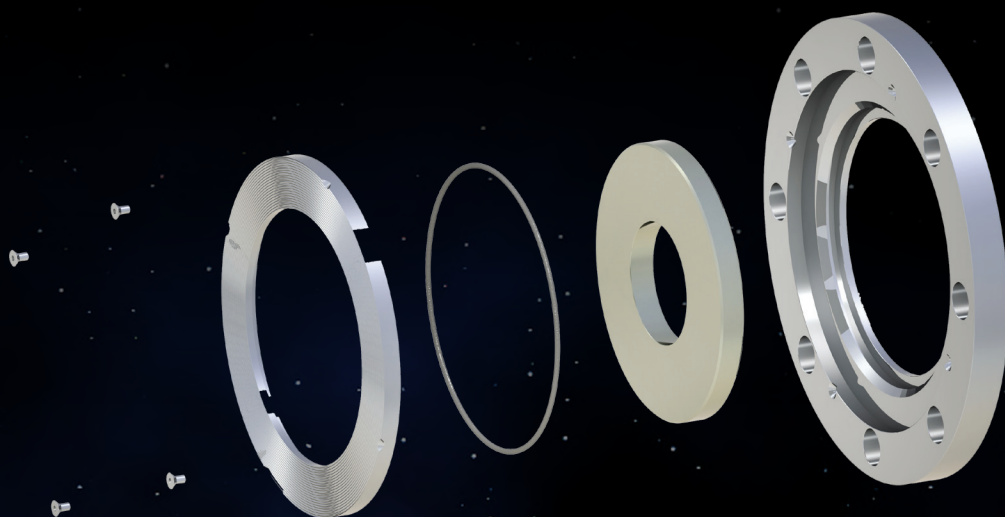
**Travis Skinner, P. Eng**  
Reliability Engineer  
Suncor Energy Inc.





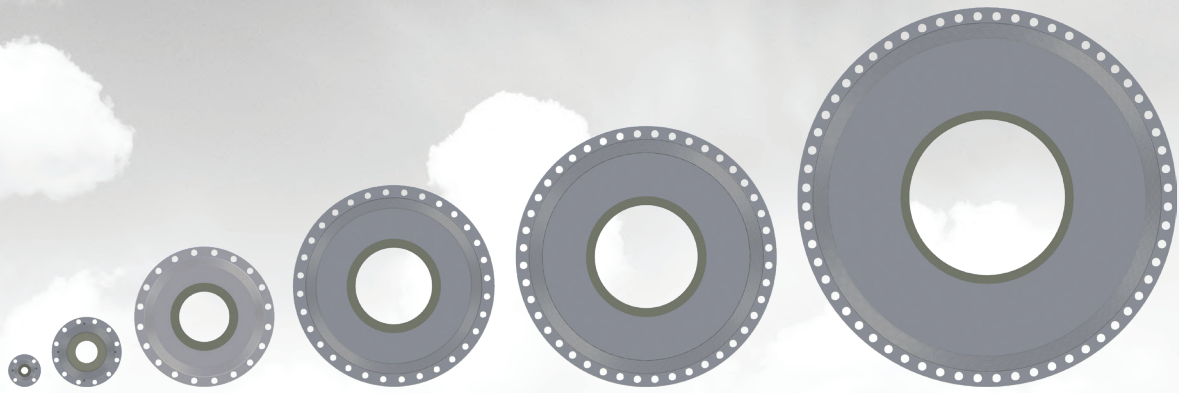
## MULTI-STAGE PRESSURE REDUCTION

For applications with high pressure differential requirements, RocketPlates can be installed in series to provide a multi-stage pressure reduction. The orifice plates will share the required drop, while minimizing or eliminating noise and cavitation.

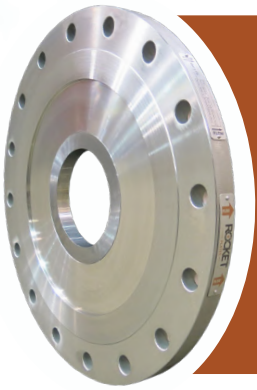


## REPLACEABLE WEAR INSERTS

Our 3-piece plate design allows end users to replace the carbide disc. This simple change-out essentially provides the customer with a new RocketPlate, as the metal housing should never experience any wear. Another advantage is that different orifice dimensions can be specified without needing to replace the entire assembly (i.e. if the flow conditions change, the plate is easily modified to suit).



**RocketPlates are readily available for 3 to 96 inch pipe diameters.**  
*(Consult SlurryFlo for larger sizes).*



## IMPECCABLE CONSTRUCTION

EACH ROCKETPLATE IS WATERJET CUT AND CNC MACHINED TO OUR ENGINEERS EXACT SPECIFICATIONS.

As metallurgy is highly dependent on application specifications, RocketPlates are available in dozens of standard and exotic materials to prevent corrosion (ex: 316SS, Hastelloy, SuperDuplex, Titanium, etc).

## SPECIFICATIONS

### **Pressure class:**

ANSI 150, 300, 400, 600 & 900.

### **Plate materials:**

316SS, Hastelloy, SuperDuplex, Titanium, Platinum, etc (there are no limitations on materials).

### **Hardware:**

Hardware material matches plate metallurgy.

### **Insert material (wear disk):**

Sintered carbides (replaceable).

### **Welded overlays:**

Stellite 6, Chrome Carbide, NanoSteel, PTA-TC, etc (there are no limitations on overlays).

### **Max operating pressure:**

2,220 PSI @ -20 to 100°F (ANSI900 RocketPlates).



Engineered and  
manufactured in Canada  
by: SlurryFlo Valve Corp.

**Slurryflo**  
valve corp.

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