

SEVERE SERVICE KNIFE GATE VALVES

Round-to-Square Valves | Square-to-Square Valves

Whether you refer to them as junk trap, trash extractor, reject or scavenger valves, our DSS Round-to-Square and Square-to-Square Valves provide the innovative Guided Shear Gate Design to the toughest applications found in high-density cleaners (cyclones) and pneumatic conveying processes.



A Knife Gate That Can Actually Cut

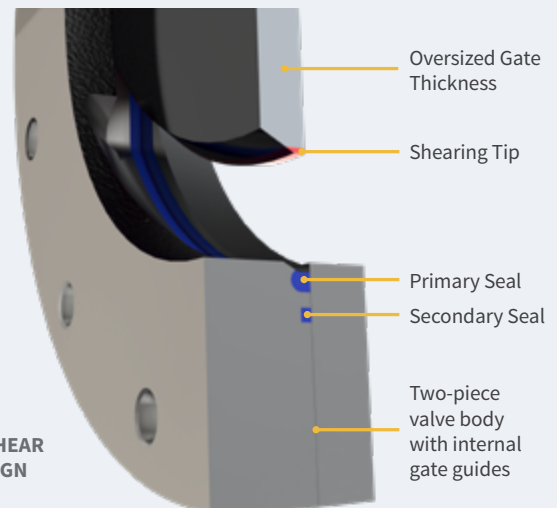
The key to the Guided Shear Gate design is the shearing tip and internal gate guides. From open to close the gate is guided the entire way removing any option to deflect when solids are encountered. Material is struck by the shearing tip, fractured and angled away, enabling zero leakage where the gate meets the primary seal.



Problems We've Solved with our R2S and S2S Valves

PROBLEM: Solids causing leakage during isolation.

SOLUTION: By utilizing a Guided Shear Gate Design, DSS R2S and S2S Valves are capable of cutting through all types of solids found in their way from glass and metal fragments to rock and scale. This ensures zero leakage isolation is achieved in the most severe service applications.



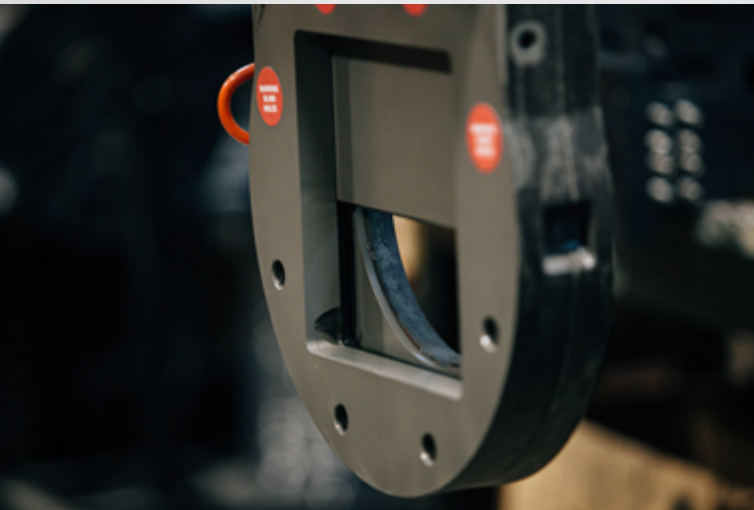
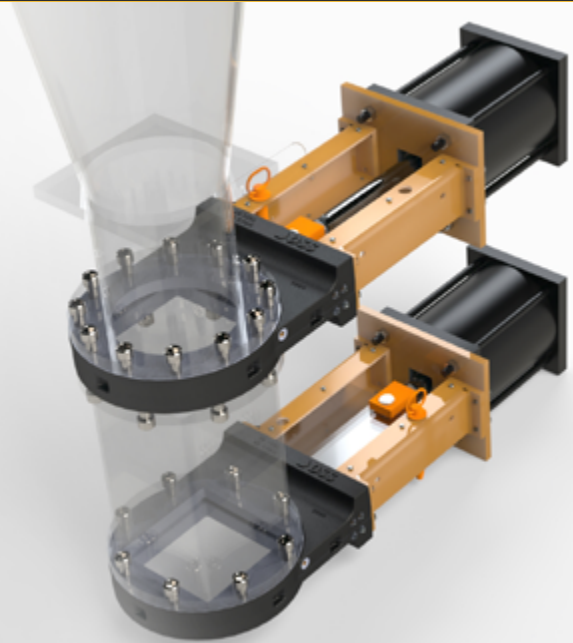
ROUND-TO-SQUARE AND SQUARE-TO-SQUARE VALVES

Junk Trap Configuration

One common junk trap configuration involves our Round-to-Square Valve at the inlet or upper portion of the junk trap, with the Square-to-Square Valve operation at the outlet.

These systems can be customized to include:

- Vortex breakers
- Wear rings
- Internal/external flush options
- Chrome carbide overlay options



Standard Specifications and Materials

Size: 3"–12" (larger sizes available upon request)

Body Material: A747 CB7Cu-1

Blade/Gate Material: A693 17.4 PH

Seat: Aflas

Transverse Seal: Aflas w/Teflon Packing

Coatings: Xylan or SevereGuard coating on body/blade

DSS Valves

Your Solution for Zero Leakage Round-to-Square and Square-to-Square Valves

DSS Valves is a streamlined team of engineering and manufacturing professionals dedicated to creating premier Severe Service Knife Gate Valves (SSKGVs).

We've utilized the same ground-breaking technology from our SSKGV design to create Round-to-Square and Square-to-Square Valves able to provide zero leakage isolation while still being able to shear through solids.

Our products are known for their ability to handle differential pressure scenarios, corrosive materials, extreme temperatures and detrimental solids.

We provide prompt delivery, honest customer service and a technologically advanced product made in North America, delivered throughout the world.