

Control Valves

DSS Control Valves (CVs) are built for severe service control applications including high solids slurry control. They resist wear from the erosion and abrasion that these aggressive applications present by channeling the destructive energies into more benign forms through velocity and pressure control and utilizing hardened trims and coatings.

DSS has designed and built a variety of control valves to handle different applications. Our designs include:

- Reduced Port Control Plate
- Perforated Plate
- V-Notch
- Soft Start Control Valve
- Custom Solutions

Each variation features an economically replaceable control plate, is fully indexable, and has smart digital positioners and Intelligent Pneumatic Actuator (IPA) cylinders. CFD flow modelling for application specific plates is also available.

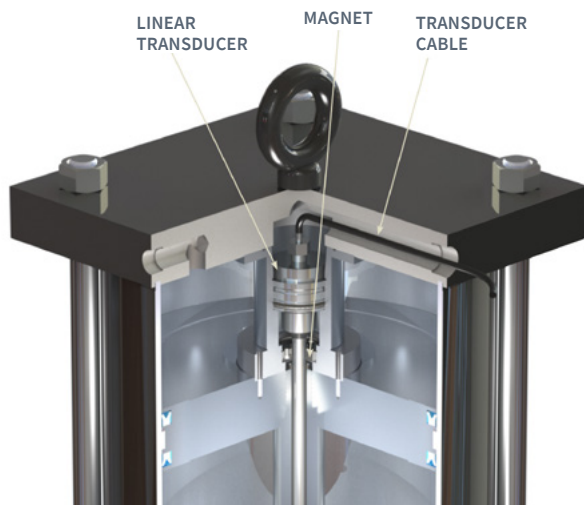
Materials available Include:

- Tungsten Tool Steel
- Super Duplex SS
- Ceramic (Silicon Carbide)
- Hastelloy C

Custom materials are available upon request.



DSS V-Notch Control Valve

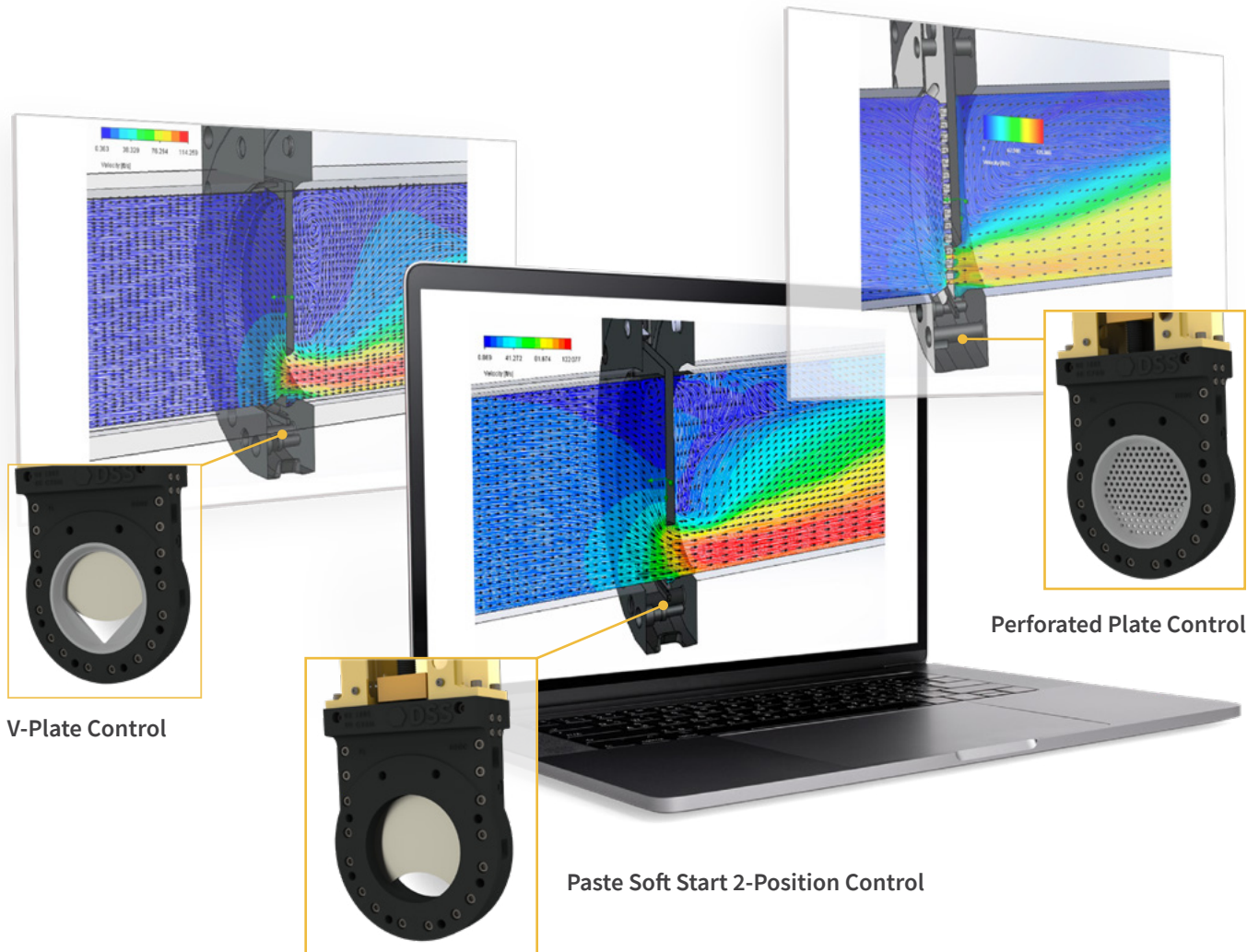


Control Your Process with Intelligent Pneumatic Actuators

We recommend combining our Control Valves with Intelligent Pneumatic Actuators (iPA). Our iPA Series feature a Linkageless design that eliminates problems associated with traditional linkage arms that are exposed to the elements.

The iPA Series' internal position sensor is the solution to these issues and assures long term reliability and performance. A fixed internal magnet on the piston of the pneumatic actuator allows the non-contact internal position feedback sensor, which is a magnetostrictive transducer, to report back its exact position to the positioner.

Examples of Custom Control Valve Solutions



V-Plate Control

Perforated Plate Control

Paste Soft Start 2-Position Control

DSS Valves—Your Solution for Severe Service Control Valve Applications

DSS Valves is a streamlined team of engineering and manufacturing professionals dedicated to creating Severe Service Knife Gate Valves tailored to fit your application. We've utilized some of our ground breaking technology to transform our premiere Severe Service Knife Gate Valve into a variant — the Severe Service Control Valve.

These valves effectively convert energy in the system to more manageable forms in order to handle the harsh applications

that slurry control often demands. Our Control Valves are known for their ability to handle low or high differential pressures, abrasive materials, precipitated and suspended solids, and corrosive fluids.

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