

## Erosive applications “Washing Out” all your profits? Sweep those problems away...

### Longer Service Life

>2x

vs. conventional valves<sup>(i)</sup>

### Unique Attributes:

- Sweeping Angle
- Unrestricted Flow Path

vs. conventional angle valves<sup>(i)</sup>

### Installation Savings

\$10K-\$30K

Per installation<sup>(i)</sup>

<sup>(i)</sup> Savings & reduction vary by application

Contact your local Masoneilan representative to learn more about the full story of benefits of the 73000 Series Sweep Angle valve.

Traditional valves may be successful in moderate duty, but severe erosion can yield immediate failure in extreme service. The Masoneilan™ 73000 Series Sweep Angle valve mitigates the erosive effects from both direct impingement and flashing applications.

### THE CHALLENGE

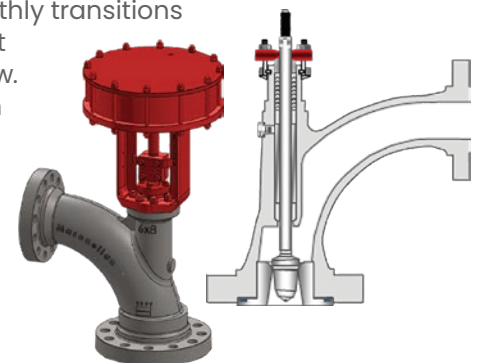
Many fuels come from synthetic processes, such as coal gasification, where gasifiers separate off fuel gas from slurry tank bottom waste that is then scrubbed and converted into a cleaner fuel. The “blackwater” waste from these processes, comprised of solids such as coal ash mixed with water, are separated downstream through a series of pressure drops and flash tanks.

Processing **erosive slurry fluid with high velocity solids can destroy traditional valves** with direct 90 degree turns by direct impingement like bullets blasting against a target. Fluid phase change for separation yields similar wear to the valve outlet from the water-cutting, flashing effect to the outlet area of phase change, including downstream piping.

### THE SOLUTION

The Masoneilan 73000 Series Sweep Angle valve is an engineered for erosive and flashing services for **longer life compared to other valve types**.

A **contoured sweep angle design** smoothly transitions flow and eliminates direct impingement of high velocity solid particles within flow. **Heavy guided trim** withstands vibration and flashing, coupled with a **hardened tungsten carbide plug design** to withstand the application. **Outlet venturi liners** expand into a larger area to avoid velocity escalation through phase change.



73000 Series – Sweep Angle Valve