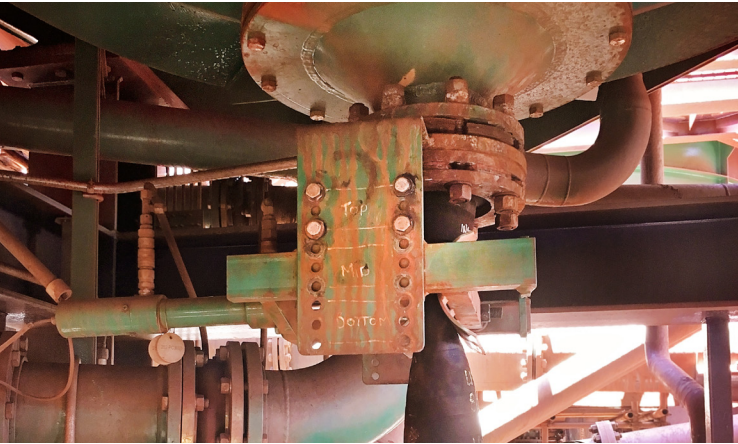


# IRON ORE SLURRY APPLICATION

## PINCH VALVE REPLACEMENT

Case Study | **Company C**  
Document: MNL20100624C



## THE PROBLEM

### 8" Pinch Control Valve

This Australian client had selected pinch valves to regulate discharge on their cyclone separators. As the slurry is highly abrasive, the maintenance group were required to replace all pinch valve sleeves every seven days. With the need for multiple cyclones on site, the costs associated with replacement parts, labour, weekly downtime and lost production were significant.

**SERVICE LIFE:** **7 DAYS**

**MAINTENANCE COST:** \$3,500/Sleeve (+ Downtime + Labour)



## THE SOLUTION

### 8" SlurryFlo Control Valve

Upon retrofitting each cyclone separator with a SlurryFlo control valve, the client quickly observed a quantum leap in wear performance. After several weeks of routine inspections, it was decided to leave the new valves unattended for extended periods. SlurryFlo's patented trim design, variable orifice technology and super hard wear materials now provide the client with 15 months of continuous service.

**SERVICE LIFE:** **15 MONTHS**

**MAINTENANCE COST:** \$8,500/Trim Kit (+ Downtime + Labour)

## RETURN ON INVESTMENT

PINCH CONTROL VALVE	~\$227,500 / year	(+ Downtime + Labour)
SLURRYFLO CONTROL VALVE	~\$8,500 / year	(+ Downtime + Labour)

**ANNUAL SAVINGS (PER VALVE)**      **~\$219,000 / year**      (+ Downtime + Labour)

Due to SlurryFlo's patented design, only the trim components are exposed to erosive flow. Once they do eventually wear out, the parts can be replaced on site, resetting the service life clock. A quick trim replacement essentially provides the client with a new valve at a fraction of the cost.