

MOUNT ISA MINES WET FILL CYCLONE

QUEENSLAND, AUSTRALIA



MINING CASE STUDY

PROJECT

TYPE OF FACILITY:

Mine Wet Fill Cyclone

VICTAULIC SOLUTIONS:

Ease and Speed of Maintenance

Labour Savings

Cost Savings

Weight Savings

On-site Safety

OWNER:

Glencore

CONTRACTOR:

Glencore

ENGINEER/CONSULTANT:

Glencore

COMPLETED DATE:

August 2016



The wet fill cyclone system at Mount Isa Mines holds a very abrasive media that causes high wear and requires regular maintenance to ensure suitability of the system's components, particularly the knife gate valves. The current valves installed in the system were seeing 12 to 24 months of services before requiring removal and replacement with a new valve or previously overhauled valve.

The wet fill cyclone is approximately three stories above ground level. Replacement of the valve currently requires the new valve to be lifted into place using a crane. The process requires extra staff and exclusion zones for lifting. The worn valves are removed and sent away for assessment and repair, and replaced with a new or overhauled valve. Once repaired, the valve is then stored as a spare valve.

The Victaulic Series 795 Knife Gate Valve is the first knife gate valve design to offer in-line maintenance of all wearing, wet parts of the valve and seat. The replacement valve cartridge weighs a fraction of the weight of the valve and can easily be hand-carried to the valve for replacement, eliminating the need for lifting equipment. Moreover, a spare cartridge for the valve costs a fraction of what a new or overhauled valve costs, and the replacement cartridge only takes up a very small amount of space in the store.

Because of the ease of replacement, an overhaul of a Victaulic Series 795 Knife Gate Valve can be completed in minutes by a single maintenance person – reducing the time from hours to minutes and staff by 2 people.

SPECIFICATIONS

SERVICES:	PIPE MATERIALS:	PIPE SIZE RANGE:
Wet Fill Cyclone	Carbon Steel	6"/DN150

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