

Maric Constant  
Flow Valves

Constant  
Flow Rate  
Regardless  
of Pressure



Est. 1963

Various processes within the mining industry require water flow to be maintained at a constant rate.

Applications include;

- Glandwater flow control
- Mechanical seal flow control
- Water treatment
- Process water control
- Safety showers & Eye Washing equipment
- Pump protection
- Dust suppression
- Fire Fighting
- Liquid ring vacuum pump seal / cooling water
- Plant washdown hoses
- Other industrial applications

Please refer to our website for comprehensive information regarding Maric Flow Control valves for mining applications and glandwater flow control. This is in pdf (downloadable) format .

### Gland-Water Flow Control

The Maric flow control valve is designed to deliver a fixed constant (maximum) flow of water, irrespective of pressure differential across it, (within a given pressure differential range).

In the case of slurry pumps, this means, the Maric flow control valve will maintain a constant flow of glandwater ;

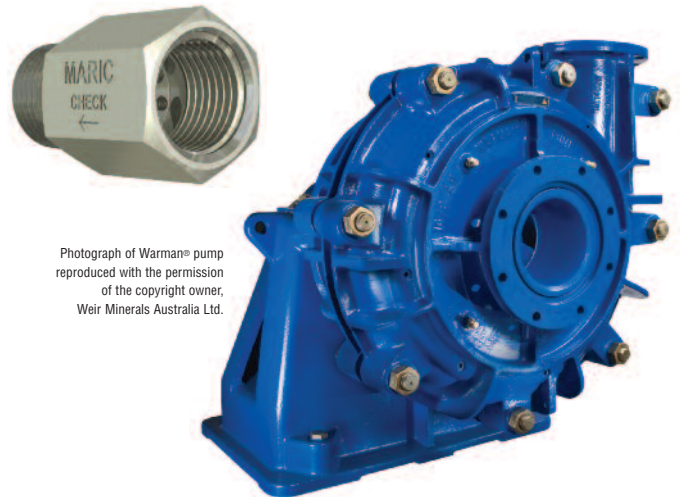
Regardless of :

1. fluctuating gland-water supply pressure,
2. gland condition, or
3. slurry pump discharge pressure.

### Benefits, & Why Use a Maric Valve?

Maric Flow Control valves are used to;

- **Protect centrifugal pump glands**, through;
  - Ensuring adequate constant flow rate,
  - Ensuring glandwater availability in the event of failure of any one or more centrifugal pump glands on a common glandwater supply. Relatively high flows through glands are not of particular concern here, as long as the glandwater pump can maintain the supply.
- **Prevent unnecessary dilution of slurry**, (or liquor in the alumina refining industry) by ensuring that glands cannot receive more than a pre-determined flow rate. A lower than set rated flow is not a particular concern here, as the condition of the gland will ultimately determine flow rate, up to the pre-set maximum permitted by the flow controller. Full rated flow of the flow controller will only result when gland is sufficiently loose enough or worn to enable it.
- **Minimise wastage of available packing water supplies.**



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Maric valves control gland-water flow rate to three stage slurry pumping facility at Roxby Downs uranium mine South Australia"

Controlling flow rate of high octane fuel at BP Refinery

Dust suppression and slurry pumping facilitated by water flow controlled with Maric Valves