

Maric Flow Control Valves

Constant Flow Rate Regardless of Pressure

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, irrespective of fluctuating gland-water supply pressure, gland condition, or slurry pump discharge pressure.



Photograph of Warman® pump reproduced with the permission of the copyright owner, Weir Minerals Australia Ltd.



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