

A.R.S -Heap Leaching Technology

***Good Design
The Key For The
Best Uniform
Percolation
and aeration***

***Mining PRV
Leaching
Control
Valves.***



***Pressure Control & Flushing Valves For
Mining Heap Leaching Solutions***

PRV Leaching Control Valves

Good design the key for the best uniform percolation and aeration

In order to maximize the ore extraction , One of the most important parameters in designing the Irrigation system is to control the pressure system in order to make the most efficient system to use with maximum hydraulic performance so the ore receives the design solution application flow rate throughout the entire leach pad.

Our Mining hydraulic control Valves made of non-metallic materials at sizes greater than 50mm (2").

These are direct-sealing diaphragm Valves that are operated by the line pressure.(no need air or electricity)

The reinforced rubber diaphragm seals the water passage when line pressure reaches the Valve's control chamber and is the only moving part in the Valve, thus allowing for friction-free operation and extra-simple design with superb reliability.

The Valves are available with a wide range of control functions:

- Manual activation,
- Pressure Reducing Valves,
- Flushing Control.
- Available in sizes: 50-160 mm ("2,"3,"4,"6)



Automatic Flushing Valves

High Performance Hydraulic Flushing Control Valve for Mining

Drip irrigation is the most advanced and the most efficient of all irrigation methods in the Mining field . However, its exceptional capabilities cannot be effectively implemented if the user is not familiar with the related knowledge and does not implement it in the current operation and maintenance of the Drip irrigation system.

In order to maintain the Irrigation Drip system properly and maximize solution application flow rate extraction , we need to flush the system periodically Proper flushing of the irrigation system is one of the most important steps. Flushing the irrigation system reduces the accumulation of pollutants to a minimum, by pushing them out of the system. The system must be flushed at regular intervals.

The frequency depends mainly on the Solution quality and the maintenance program.

Flushing of the irrigation system is comprised of 3 steps,

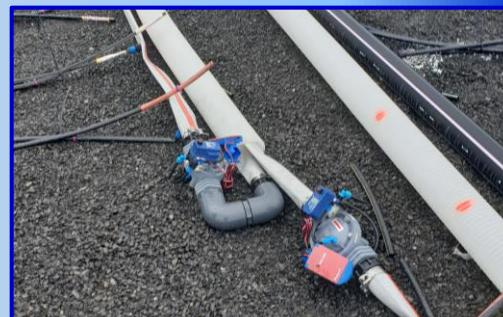
- 💧 Flushing the main pipe.
- 💧 Flushing the sub-main lines(flat net).
- 💧 Flushing the dripper lines.
- 💧 During the irrigation the velocity in drip line is low.
- 💧 By Opening the Flushing Valve the flow velocity grows and flash the solid particles out.
- 💧 The flushing velocity should be at least 0.5 m/sec.
- 💧 Our automatic flushing maintain the drip Leach lines clean and reduce drippers clogging.

Our Flushing Valves are available with a wide range of control functions:

- 💧 Manual activation,
- 💧 Flushing Controller.
- 💧 Available in sizes: 50-160 mm ("2,"3,"4,"6)



Control Flushing Valve





Controlling The Pressure And The Flow, This Is The Key For The Best Uniform Percolation & Aeration

High Quality Acid Resistant PRV-Control Valves Systems



For More Information
Office@aquaroyalSpring.com
Dayan.m@aquaroyalSpring.com
www.aquaroyalSpring.com
Cell&WhatsApp +359 896123439
Cell&WhatsApp +7777 4480044
Cell&WeChat +972 526960351
DRC : +243-998165138