

## SPRAYING CYANIDE SOLUTION

# Info BITS

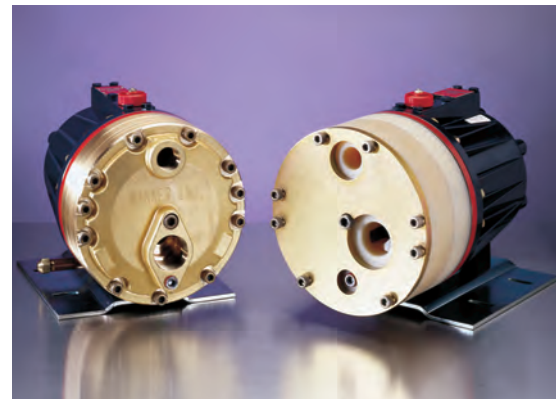


### The Gold Standard for Pumping Caustic Fluids

The most efficient and widely used method of extracting gold is to mine and crush the ore, and then remove the gold element by means of the "cyanide process."

Hydra-Cell pumps inject a solution of 71% water; 25% cyanide; and 4% caustic into a water stream to form a 2% cyanide solution. This mixture is sprayed over crushed ore, leaching out the gold, which is then precipitated from the cyanide solution by adding powdered zinc. The cyanide solution is recycled for further use.

There are no leak paths in the seal-less design of a Hydra-Cell pump, so it can handle aggressive fluids. In addition, spring-loaded, horizontal disk check valves enable Hydra-Cell to pump the recycled cyanide solution even when it contains particulate matter.



*Hydra-Cell H/G-25 pumps are used for spraying cyanide solution over gold ore and then pumping the recycled solution. Metallic head models have a maximum flow rate of 20 gpm (75.7 l/min) and pressure rating of 1000 psi (69 bar).*

**Handles  
Particulate  
Matter**

**Hydra-Cell**<sup>®</sup>  
Seal-less Pumps

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