

Application story

WANNER
HYDRA-CELL[®] PRO
SEAL-LESS PUMP TECHNOLOGIES



Gland Seal Flushing

Location	South Africa	Hydra-Cell model	G35XKBTHFEHA
Type of application	Gland Seal Flushing	Flow rate	127 l/min (34 gpm)
Liquid	Water	Pressure	35 bar (500 psi)
Application details	A South African mine deals with a phosphate slurry, a particularly abrasive material, which must be pumped away to a slimes dam. For this purpose, the mine uses large all-metal slurry pumps arranged in series and developing a head of 30 bar. Their seals must be continuously flushed to prevent excessive wear and premature breakdown. The small pumps used for flushing must maintain a pressure above that of the system to establish a water seal at the gland seal of the slurry pump and so prevent slurry from pushing back into its seal chamber. But the conventional seal flushing pumps originally fitted could not do this effectively, because their own seals could not handle the recycled grey water (containing abrasive particles) that the mine used for flushing. Following successful trials, the mine replaced all its conventional flush pumps with Hydra-Cell G35 pumps. Five months later, mine engineers reported that no pump failures had occurred and there had been no need in that period for any technician to be called-out in emergency. Savings in production downtime, pump repair and call-out costs paid for the Hydra-Cell pump and motor sets within ten months, and five years later the G35s were still running reliably.		
Advantages of Hydra-Cell pump on this application	Ability to handle non lubricating abrasive slurry reliably. Controllability. High pressure capability		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com