

Application story



Dust Suppression at Copper Mine

Location	Sweden	Hydra-Cell model	G25XKCTHFEYA
Type of application	Dust Suppression at Copper Mine	Flow rate	Up to 60 l/min (16 gpm)
Liquid	Water Abrasive Slurry	Pressure	Up to 70 bar (1000 psi)
Application details	The major supplier of mining and construction machinery at a high-profile cost-efficient copper mine in northern Sweden has successfully replaced a piston plunger pump with a Hydra-Cell G25 pump on a demanding dust suppression application. In consequence the Hydra-Cell distributor has been asked to quote for a further 6 pumps. Inlet conditions can be 'a bit tough' on this application agrees the customer. "To prevent the plunger pump from running dry, we had to install a check valve in the suction line." From time to time the valve would fill with mud – starving the pump and burning the plunger seal. There were a lot of repair and operational problems. The G25 has run perfectly, with only one failure (for which the pump was not responsible). It gives a better flow than the plunger pump, and there is no need for a check valve on suction. The technical supervisor concerned has become a new advocate for the Hydra-Cell – which cannot harm prospects for seal-less pump sales on other applications in the OEM company. One project for possible review is a pressure injection application using the G04.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Reliable pumping of difficult liquids and able to run dry without damage.		

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