

Application story



Benzene - Waste Solvent

Location	Czech Republic	Hydra-Cell model	G35EDCJHFEHB
Type of application	Feeding Burner Nozzles in Cement Manufacturing	Flow rate	60 l/min (16 gpm)
Liquid	Benzene - Waste	Pressure	40 bar (580 psi)
Application details	Holderbank Cement, a cement producer in the Czech Republic, was using vane pumps to handle waste solvent – and wearing them out at the rate of two pumps each year. The solvent mix, mainly benzene, is a by-product of a coal processing plant, used in cement manufacture as a burner fuel. Containing dirt and abrasive carbon particles, it is also non-lubricating and toxic – a combination that make it both difficult to pump and potentially hazardous unless the system is leak-proof. In these circumstances, pumps with seals were not ideal. The cement plant replaced its vane pump with the Hydra-Cell G35, whose seal-less design enabled it to handle the mix without difficulty while comfortably meeting performance requirements, in this case 60 l/min at 40 bar. Initially, at customer request, the G35 used ceramic valves. However, valve wear was less than expected, so the customer decided to revert to hardened stainless steel valves and seats whenever replacements should be needed. Burner feed pumping systems with Hydra-Cell pumps are now widely used in European cement plants.		
Advantages of Hydra-Cell pump on this application	Seal-less design, avoiding risk of leakage. Wide choice of materials of construction to resist abrasion and chemical attack.		

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