

Application story



Cleaning High Pressure for Production Tanks and Vessels

Location	France	Hydra-Cell model	G25XKBTHFEHB
Type of application	Cleaning High Pressure for Production Tanks and Vessels	Flow rate	63 l/min (16 gpm)
Liquid	Hot Water	Pressure	70 bar (1000 psi)
Application details	This company manufactures a wide range of chemicals, in particular, liquid soap. It also produces diesel additives and pesticides using the same plant. Therefore the customer is required to clean the tanks very well in between processes. The cleaning system in place uses a URACA pump which requires a flow 3.6m³/hour at 66 bar. The water is heated to 60°C. The pump is fed with water at 3 bar from the mains supply. When the system was originally installed it incorporated a centrifugal pump which was driven by a 37kW motor. The pump proved to be unreliable, with high maintenance costs. It was also found to be difficult to control at the point of operation because the same pump is also required to feed hand-held lances. Pump performance was affected by the build up of calcium deposits from the hot water. Moreover the water is heated by injecting steam directly into the feed line. From time to time this would create a pocket of vapour and cause cavitation. The G25 pump delivering 63 l/min at 70 bar and being driven by an 11kW motor was installed to replace the centrifugal. The Hydra-Cell has been in service since August 2008 without any problems. The customer is considering upgrading the two remaining systems to Hydra-Cell following the initial months of trial with the first new system.		
Advantages of Hydra-Cell pump on this application	60% cheaper (purchase cost) than the centrifugal it replaced. Price of the Hydra-Cell service kit compared to the centrifugal pump repair. Ability to handle water that is not necessarily clean. Huge saving in energy costs.		

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