

Application story



Cleaning IBC's with High Pressure Hot Water (3)

Location	Spain	Hydra-Cell model	G10XKSESNETC
Type of application	Cleaning IBC's with High Pressure Hot Water (3)	Flow rate	Up to 30 l/min (8 gpm)
Liquid	Sodium Hydroxide	Pressure	40 bar (580 psi)
Application details	The efficiency and speed with which IBCs and other mobile bulk liquid containers are cleaned internally can directly affect the productivity of a logistics operation. Automatic cleaning by rotary spray is the typical choice, but within it there can be big differences in turn-round times and water/chemical usage, depending on the type of spray device and system pressure. And pump performance can also be critical. An IBC cleaning facility in Spain was running a low-pressure high-volume system fed by a multi-stage centrifugal pump. Despite use of a strong chemical solution (NaHO, in a 10-15% concentration) the low-impact rotary spray was ineffective. It was failing to shift residual liquid build-up inside the vessel, so that cleaning efficiency was actually falling. Meanwhile the cleaning cycle time had to be increased - resulting in further waste of water and chemical. Facility management took drastic action. The centrifugal pump was replaced by a Hydra-Cell G10, supplied through Tecnica de Fluidos and operating at 40 bar, while a new high-pressure spray nozzle was fitted, in place of the original low-pressure nozzle. Liquid temperature is 60°C. Spray cycles have been significantly reduced, turn-round times shortened. Chemical and water usage have been minimised and all-round cleaning performance greatly improved. Two new units were installed initially and two more were scheduled.		
Advantages of Hydra-Cell pump on this application	High pressure capability. Low routine .maintenance. Long-term reliability.		

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