

Application story



Sodium Hydroxide Injection in Terephthalic Acid Production Line

Location	Russia	Hydra-Cell model	G25EKSTHFEHB
Type of application	Sodium Hydroxide Injection in Terephthalic Acid Production Line	Flow rate	3 m3/hr (793 US gal/hr)
Liquid	Sodium Hydroxide	Pressure	30-35 bar (435-508 psi)
Application details	The end user customer is the largest producer of terephthalic acid (TPA) and polyethylene terephthalate (PET) in Russia - raw materials for polymer food packaging. PET is used in food packaging for water, dairy products, juices, medical products and household chemicals and TPA is a precursor in its production. The TPA manufacturing process adopted by the customer requires a 3% Sodium Hydroxide solution in water to be injected into the production line. A Hydra-Cell G25 pump was selected for this purpose in preference to a locally produced high pressure centrifugal pump. (Where a mechanical seal allows 'weeping' of the fluid the caustic can crystallize quickly, causing abrasive wear around the shaft.)		
Advantages of Hydra-Cell pump on this application	The Hydra-Cell G25's pumping efficiency far exceeds that of the competitor pump and its compact size was also a contributing factor in the purchasing decision. Labour protection and industrial safety are key priorities of the end user customer and a key criteria for their purchasing decision. The use of a seal-less Hydra-Cell pump prevents leaks of sodium hydroxide, exposure to which could be dangerous to the workforce.		

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