

Application story



Hydra-Cell Handles a Volatile, Corrosive Liquid

Location		Hydra-Cell model G10EKSGHFECH	
Type of application	Pumping jet fuel	Flow rate	22.7 l/min (6 gpm)
Liquid	Jet Fuel and Salt Water	Pressure	Variable from 41 to 69 bar (600 to 1000 psi)
Application details	A fleet operator uses jet fuel (Jet-A, JP-5, JP-8) mixed with 5% salt water at 250°F (121°C) to boost the speed and distance of its planes. Since the fuel and water separate when stored, they need to be remixed under high pressure for refueling. A Hydra-Cell model D10/G10 with a Hydra-Cell C62 pressure regulating valve was selected to thermo-cycle the jet fuel through a heat exchanger. Due to the volatility of the liquid, the pumping system cannot use any electrical components. The D10/G10 is therefore equipped with an explosion proof motor (Class I, Div. II, Class 2, Group D/F & G). Other requirements met by Hydra-Cell include a self-priming pump and being able to run dry without damage. Mounted in a custom skid system, the Hydra-Cell D10/G10 is pumping the jet fuel in a safe, efficient manner.		
Advantages of Hydra-Cell pump on this application	Its corrosion-resistant materials of construction enable the pump and valve to handle the mixture despite the salt water component.		

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