

Application story



Flocculant & Demulsifier Injection

Location	Oman (Installation: 2014)	Hydra-Cell model	G13XKSJSNEMG - 4MH
Type of application	Flocculant & Demulsifier Injection	Flow rate	190 to 8 l/h. 24:1 turndown capability
Liquid	Flocculant Demulsifier	Pressure	100 bar (1,450 psi)
Application details	Application: Injection of flocculant & demulsifier. Pumps must exceed API675 performance criteria of linearity, repeatability, and steady state accuracy. Flow rate is control by pump rpm by means of a variable torque-proportional power transmission – providing high service life and reliability. No friction at all inside the gear, torque transmission thanks to the “elastohydrodynamic effect”. Liquid: Flocculant density: 1-1.1 g/cm³ at 15°C viscosity: >50 cps (20°C) Demulsifier density: 0.88 g/ml at 15°C viscosity: 8 - 9 mPas (20°C) Inlet pressure: Flooded suction from tank Duty cycle: Continuous Other pumps considered: API 675 Traditional single diaphragm metering pumps.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell G13 was chosen over traditional single diaphragm metering pumps because of the following reasons: • Multiple diaphragms in a single pump head • No pulsation damper required • Virtually pulse free flow • Improved metering accuracy • Reduced installation, acquisition and maintenance costs		

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