

Application story



Metering Ammonia Water/Benzene

Location	Switzerland (Installation: 2016)	Hydra-Cell model	G35EESECCEMD with ATEX accessories
Type of application	Metering Ammonia Water/Benzene	Flow rate	704 - 3,449 l/h (186-911 gph)
Liquid	Benzene Ammonia Water Paraldehyde (Para)	Pressure	88 - 100 bar (1,276-1450 psi)
Application details	In October 2016, the customer installed 3 x Hydra-Cell G35 pumps in their MEP (5-Ethyl-2-Methylpyridin) production plant. The MEP plant includes 6 plug flow reactors, each with its own metering pump for continuous (24-7) dosage of ammonia water (NH₃-water) and paraldehyde (Para). The Hydra-Cell pumps are equipped with a VFD and replaced the existing piston diaphragm metering pump (LEWA). Pump 1 is used for NH₃-water, pump 2 is used for Para and pump 3 is installed as standby for both applications. Running the demanding continuous duty of 24 hours a day every day, the Hydra-Cell pumps have made a significant improvement over the old piston diaphragm pump so much so, a further 16 Hydra-Cell pumps will be installed from March/April 2022.		
Advantages of Hydra-Cell pump on this application	• Robust hydraulics (membrane, valves) • Accurate metering and flowrate control with virtually pulse-free linear flow (essential for downstream flowrate measurement) • Low maintenance • Compact in size		

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