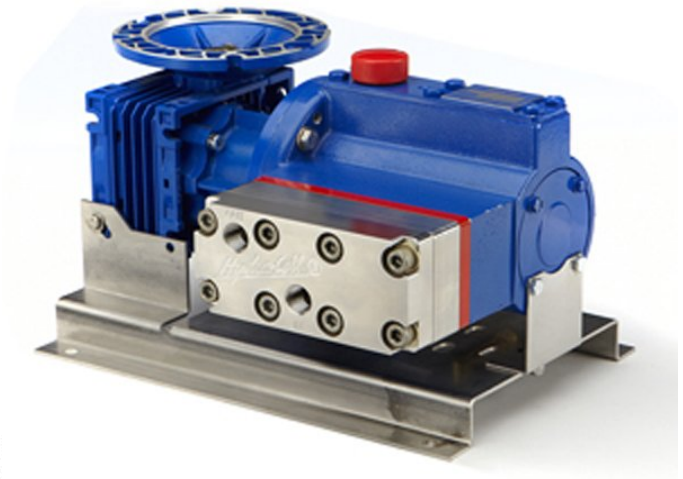


Application story



Boiler Feed pH Stabiliser Metering

Location	USA	Hydra-Cell model	P300MSGSS060S
Type of application	Boiler Feed pH Stabiliser Metering	Flow rate	1.43 l/hr (0.38 gph)
Liquid	pH Stabiliser	Pressure	Up to 172 bar (2500 psi)
Application details	A US paper mill was using a high-pressure packed plunger pump to meter a proprietary pH stabiliser into boiler feed water to correct low pH, which is a common cause of corrosion in steel boilers. Precise metering of the corrective helps maintain pH balance and inhibits corrosion. The plunger pump, unable to satisfactorily handle the non-lubricating stabiliser liquid, had to be taken out of service for maintenance 10 times a year on average – running up a cost of US\$900 for each spare parts kit, plus labour and downtime costs. A Hydra-Cell P300 metering pump was installed to replace the plunger pump. Six years after installation it was still operating continuously, and had never been taken out of service or needed repairs. The pump runs at 6 rpm, accurately delivering the pH stabiliser in precise volume at an appropriate pressure. (The P300 can operate at any pressure up to 170 bar.)		
Advantages of Hydra-Cell pump on this application	Seal-less design. Able to handle hot non-lubricating liquids. Long-term reliability on continuous duty. Maintenance and repair costs minimal. Accurate metering.		

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