

METERING

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	United States
Application:	Acid waste neutralization
Media:	• Calcium Carbonate • Sodium Hydroxide • Sulfuric Acid • Hydrochloric Acid
Model No.:	M03XKPTSSTPA x 3 M03XKPGSSTPA x 3 P400NMGTT007S x 2 D10XKNGTTTTA x 2 P200NPTTT040C x 2 H25EFNECCTPC x 2
Flow Rate:	Various/variable
Pressure:	Various/variable
Hydra-Cell Advantages:	• Reliability • Lower costs • Compact size for performance



Acid Waste Neutralization in Silicon Chip Manufacture

A semiconductor manufacturer in Portland, Oregon has gradually replaced all of its original metering pumps with a variety of Hydra-Cell pumps. Etching the silicon wafer with hydrochloric acid is a fundamental part of chip manufacturing and treating the waste is essential. As part of the waste treatment process the Hydra-Cell pumps, mostly located in the company's acid waste neutralization department, pump the neutralizing chemicals.

The customer was introduced to Hydra-Cell before the metering line was developed so the majority of the original pumps were directly coupled to motors, and the controllers were purchased separately. Soon discovering how reliable, compact and inexpensive the Hydra-Cells were, compared with the traditional metering pumps they were replacing, the customer has been adding them at every opportunity. Fourteen Hydra-Cell pumps are now installed at the plant.

Characteristics of Fluid Pumped:

☐ Contains Abrasives ☒ Corrosive ☐ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☒ Non-lubricating ☐ High-viscosity (>500 cPs)