

Application story


WANNERTM
HYDRA-CELL[®] PRO
SEAL-LESS PUMP TECHNOLOGIES



Acid Neutralisation in Silicon Chip Manufacture

Location USA

Hydra-Cell model MO3XAPTSSTPA x 3 /
MO3XAPGSSTPA x 3 /
P400NMGTT007S x 2 /
G10XKNGGTTT x 2 /
P200NPT040A x 2 /
G25EFNECCTPC x 2

Type of application Acid Waste Neutralization

Flow rate 5 - 75 l/min (1.3-6.8 gpm)

Liquid Calcium Carbonate
Sodium Hydroxide
Sulphuric Acid
Hydrochloric Acid

Pressure Up to 35 bar (508 psi)

Application details 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 hydrofluoric 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, are pumping 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.

Advantages of Hydra-Cell pump on this application Reliability. Lower costs. Compact size for performance.

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