

Hydra-Cell, the Pump for De-scaling

When a major producer of heavy-duty industrial cleaning machines and jet washers was commissioned to design and manufacture a high-pressure cleaner/de-scaler for an agricultural equipment manufacturer, they turned immediately to Hydra-Cell Seal-less pumps.

The biggest pumping problem with such heat treatment de-scaling installations is the solid scale particles that invariably bypass filtration stages to some extent in such re-circulating, closed loop systems. Such abrasive particles cause severe damage to pumps that rely on close internal tolerances for efficiency. Seal wear, caused by the finest particles can be expensive and at worst catastrophic for these types of pumps.

Hydra-Cell diaphragm pumps have no dynamic seals to wear and no tight internal tolerances, ensuring long-term efficiency and reliability with no seal maintenance.

The Company had good past experience of using Hydra-Cell leak-free, low maintenance pumps but for this particular application the liquid flow requirements were substantially higher than previously encountered.

The answer was to use four Hydra-Cell T100K triplex pumps in parallel in order to achieve a flow of 681 lpm at 193 bar pressure. The pumps handle the solid abrasive particles with ease and have proved to be an exceptionally reliable solution.

Further information from:

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Note:

Wanner is the world's leading manufacturer of seal-less, high-pressure, diaphragm pumps. These Hydra-Cell pumps are highly efficient, heavy duty pumps used for liquid transfer, metering, injection, spraying and dosing of the widest range of liquids

including chemicals, solvents, acids, hydrocarbons, natural gas liquids, alkalis, polymers, aqueous ammonia, resins, slurries, wettable powders recycled or dirty liquids etc.

Hydra-Cell positive displacement, unique multi-diaphragm, seal-less pumps can handle corrosive, non-lubricating and abrasive liquids and slurries and can even run dry without suffering damage.

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