



Kelair Pumps Australia Pty Ltd

PumpAction.....

Case Study

Sales Engineer Cory Jessop (WA)

Products

- Pumps
- Steam Turbines
- Building & Fire
- Wastewater
- Service 24/7
- Spare Parts
- Sewage-Treatment

Call direct 1300 789 466

Sandpipers press on

A filter press is very basic, but very effective and important in a lot of process applications and Sandpiper pumps play a major role for many of Kelair's customers.

A filter press is used for separating solids from liquid slurries. This is known as com-



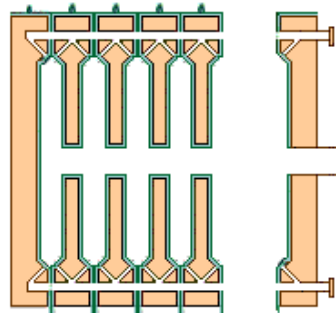
pressed cake. Sandpiper pumps can handle a vast range of products and product viscosities making them ideal for filter press application.

A filter press consists of a series of horizontally-arranged vertical filter plates, each covered with paper, felt medium or synthetic woven material. A mechanical structure (skeleton) is used to support the filter plates and a closure mechanism provides the re-

quired force on the sealing faces of the plates to counteract the applied force of filtration (squeezing).

The presses work on what is known as feed pressure or squeeze pressure. This reduces the liquid content in waste slurries or the solid content in industry processes.

One of the main benefits of Sandpiper AODDPs is that the maximum pump pressure will never exceed air inlet pres-



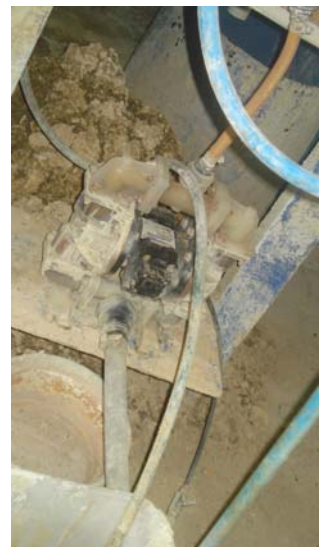
sure and a consistent pumping rate can be maintained even under fluctuating pressure head conditions.

Sandpiper AODDPs are also extremely versatile in handling the different flow and pressure which will differ continuously with this application, another reason they are so ideal.

Filter press systems often become blocked due to the viscosities of the liquid being pumped, causing the pump to run dry. Sandpipers have the capability to run dry indefi-

nately without causing any damage to the pump and they are also completely self-priming from a dry-start on suction lifts.

Because of their simple design, Sandpiper pumps have no shaft seals or packing glands which can wear and require frequent maintenance. With no rotor, impellers, gears, vanes or pistons to wear out, the user can be confident that



pumping efficiency will not deteriorate over time.

The customer has had the same Sandpiper pumps on their filter presses for the last five years and has only just requested a replacement for one of four at the plant. The pumps play a huge role at very little cost in the customer's business.

Kelair Pumps Australia Pty Ltd

215 Walters Road

Arndell Park NSW 2148

ABN 28 001 308 381

Fax 02 9678 9455

www.kelairpumps.com.au

Case Study

Sales Engineer Michael Waters (TAS)

Sandpiper features & benefits:

- Non-stalling guarantee
- Cross-drilled technology to eliminate stalling
- ESADS+ (Externally Serviceable Air Distribution System) allowing repair of pump without removing from pipeline
- Fully-bolted design provides a positive seal and reduces the incidence of leaks
- Lubrication-free, eliminates requirement for lubricators, reducing initial cost and maintenance cost

Sandpipers uplift spirits

Kelair's customer required air-operated diaphragm pumps to pump abrasive spirit-based paint for a new spray booth at their Launceston-based foundry.

They were trialling a 1" diaphragm pump in stainless steel / teflon construction and found it handled the required duty.

However, after going to the site to view their spray booth, and asking a few questions about the pump, Kelair's engineer found



Sandpiper's S1F Metallic

they were having issues with the pump stalling, which was quite a problem because of its accessibility.

Kelair's engineer mentioned the benefits of our Sandpiper air-operated diaphragm pumps, including the guaranteed non-stall feature and the externally serviceable air distribution system.



Cross-drilled technology

Sandpiper pumps are fitted with pilot spools which incorporate what is called "cross-drilled technology".

This feature, used in the ESADS+Plus air distribution system ensures reliable performance and guaranteed start/stop performance.

With this and all the other features standard on the Sandpiper pumps the customer was happy to place an order with others to follow over the next several months.

