

Application story



Printing Ink Recirculation

Location	USA	Hydra-Cell model	D35XKSTHFECB
Type of application	Feeding ink to printing presses	Flow rate	D35 Up to 140 l/min (37 gpm) H25 Up to 76 l/min (20 gpm)
Liquid	Ink	Pressure	34.5 bar (500 psi) max
Application details	The installation has been running a long time. The Hydra-Cells are pumping the printing ink in a re-circulating loop through the printing presses. The Hydra-Cell pumps were chosen to replace a series of Viking gear pumps that leaked through the dynamic seals - these were exposed to the abrasive pigments in the inks. 'A little newspaper printing ink goes a long way and room was a mess', said the customer. The Hydra-Cell pumps have not leaked a drop and have proved very dependable. The pumps run continuously to move the ink down the pipes along the entire length of the press room and back to the original tank. There are branches off the main line to feed each of the printing presses in the plant. The ink is thixotropic so the viscosity is lower once the fluid is moving but high when it is not flowing. To help overcome the viscosity of the liquid on start up, 3.17mm ports were machined in the valve plate to aid priming when starting up after maintenance or down time.		
Advantages of Hydra-Cell pump on this application	Sealless design, ability to handle viscous liquids and controllability.		

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