

Application story



Isocyanate Transfer from IBC's

Location	Poland	Hydra-Cell model	G35EKSJHFEMB
Type of application	Isocyanate Transfer from IBC's	Flow rate	7000 L/hr (1850 US gal/min)
Liquid	Isocyanates	Pressure	1 Bar (14.5 psi)
Application details	Hydra-Cell® Pumps Isocyanates DSI Schaum Chemie, the major Polish chemical manufacturer supplies isocyanate to the polyurethane industry, decanting from 1000 litre intermediate bulk containers into 20 litre drums. Isocyanates are powerful irritants and need to be 100% isolated to prevent exposure. They tend to react to the humidity in the air by forming very hard crystals, which wear out the pumps and mechanical seals. Schaum Chemie has chosen a Hydra-Cell G35 pump for the purpose in preference to AOD and peristaltic pumps previously tried. The AOD pump had significant pulsation that interfered with the weighing system and the peristaltic pump suffered premature tube wear caused by the abrasive particles. The Hydra-Cell G35 pumps with a virtually pulse-less flow and handles the abrasive particles with ease.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - It's seal-less design, containing the product and preventing air contamination. - Ability to handle the potentially particle laden liquid with ease.		

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