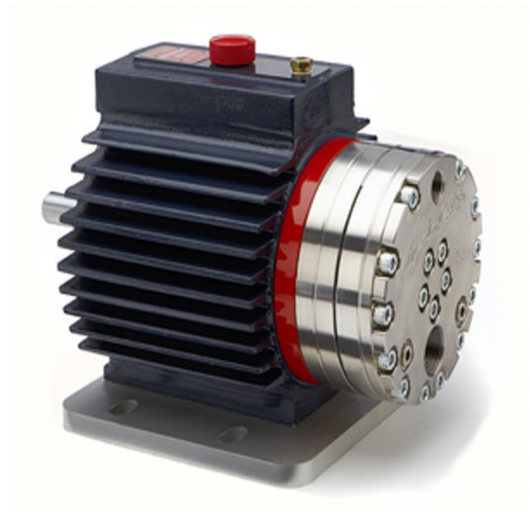


Application story



Cleaning High Pressure Roller Drums

Location	Denmark	Hydra-Cell model	G15XDSTHFECB
Type of application	Cleaning High Pressure Roller Drums	Flow rate	40 l/min (11 gpm)
Liquid	Recycled Water	Pressure	140 bar (2030 psi)
Application details	Hydra-Cell G15 pumps replaced piston pumps for the continuous high-pressure cleaning and conditioning of a revolving drum during production of stone wool insulation at a plant in Denmark. The 'rope' of expanded fibres is transported over the 8m-long drum and loose mineral fibres must be continuously removed from its surface. The recycled cleaning water carries abrasive mineral particles as large as 0.5mm, and these were causing excessive wear in the piston pumps originally installed. The seal-less Hydra-Cell pumps (2 x G15 pumps in each installation) handle the abrasive particles well, reducing problems of wear. The Hydra-Cell's constant high-pressure flow allows close control of the cleaning process, which runs 24/24. Success in the manufacturer's home country encouraged the group to install Hydra-Cell pumps as part of production facility upgrades in other territories. Among the first were facilities in Canada, Spain, Norway and the former USSR.		
Advantages of Hydra-Cell pump on this application	Seal-less design, with the pumped fluid isolated from the drive mechanism, enabling the pump to handle abrasive fibres in the recycled water. Diaphragms work in hydraulic balance (pressure of discharge liquid being balanced by hydraulic oil pressure on the drive side) enabling the diaphragms to work unstressed at high pressures.		

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