

Application story



Seal Flushing for Large Centrifugal Mining Pumps (2)

Location	India (Installation: 2023)		Hydra-Cell model	G12XRSGSFEHB & G12C1001164
Type of application	Water Injection		Flow rate	20 l/min
Liquid	Water		Pressure	40 bar
Application details	Supplied to a global mining process equipment supplier, the pump is installed on a tank for mechanical seal API 682 Plan 54 and is injecting water into the seal chamber of Multi stage centrifugal pump. In mining industries, large centrifugal pumps are used for slurry, water transfer and an important component of centrifugal pumps is the mechanical seal. To avoid damage, a sealing system plan is used which keeps the mechanical seal inboard faces lubricated at higher pressure up to 40 bar. The Hydra-Cell pump used to generate pressure as per process requirement and keeps the inboard seal faces lubricated and does not allow the process fluid to enter into seal chamber and improves MTBF. We have supplied 10 X G12 pumps to one customer and in discussion with Mechanical Seal Systems OEM customer for other projects.			
Advantages of Hydra-Cell pump on this application	• Non-lubricating liquid handling capability • Vertical Installation • No dynamic seals or packing • Steady, virtually "pulse-free" flow to keep the seal chamber clear of contaminant			

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