

CHEMICAL & PETROCHEMICAL

Quick STUDY

Hydra-Cell®
Seal-less Pumps

www.Hydra-Cell.com

Location:	Belgium
Application:	Metering Celite
Media:	• Celite
Model No.:	D10EDSJCEHB
Flow Rate:	265 gph (1000 lph)
Pressure:	145 psi (10 bar)
Hydra-Cell Advantages:	• Compact size • 50% saving on purchase cost • Energy and maintenance cost savings • Low pulsation



Metering Celite into Slurry Pump Line

A batch production process at a petrochemical company required a reliable pump to meter a 5% solution of Celite into a slurry line. The pump originally specified was a traditional metering pump to API 675 specification, with stroke adjustment and a double diaphragm leak detection system.

The Hydra-Cell D10 pump was preferred as a valid alternative, matching the traditional unit in reliability and flow/pressure capability with additional major advantages. Output is varied accurately and consistently by speed control with no need for stroke adjustment, and oil level monitoring replaces diaphragm detection.

Simpler construction means the pump is much more compact and about half the cost of the traditional alternative. The high speed, low-volume-per-stroke delivery of the Hydra-Cell pump also significantly reduces pulsations.



Characteristics of Fluid Pumped:

☐ Contains Abrasives ☐ Corrosive ☒ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☐ Non-lubricating ☒ High-viscosity (>500 cPs)