

Application story



Animal Feed Ingredient Metering

Location	Denmark	Hydra-Cell model	G10XDCGHFEMA
Type of application	Animal Feed Ingredient Metering	Flow rate	80 - 1225 l/hr (21 - 324 l/hr)
Liquid	Soya Oil Fish Oil Chicken Fat Water Colour Dye	Pressure	20 bar (290 psi)
Application details	A Danish company, making extrusion machinery for the production of animal feeds and pellets for fish farming, had experimented with various types of pump to find one that could effectively handle all the different ingredients used by its customers. Some of the pumped liquids are abrasive, some contain solids. Required flow rates vary widely - calling for a pump capable of 15:1 turndown ratio. None of the pumps were satisfactory. A piston pump was marginally better than some types, but itself had severe limitations. There were problems with seal wear, with consequent falling away of accuracy and poor repeatability. The OEM looked for another positive displacement pump (but one without seals) that would resist abrasive liquids, sustain high accuracy and efficiency, and be able to run dry. The Hydra-Cell G10 finally chosen met all these criteria and is now fitted as standard equipment on all extruders produced by the firm, for both home and export markets. No problems have been reported from the field and the one model is able to pump the full required range of liquids, delivering outputs from 80 l/hr up to 1225 l/hr.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Reliability. Resistance to abrasives. Tolerance of solids. Dry run capability. Repeatable accuracy. High efficiency. 15:1 turndown		

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