

Application story


WANNER[™]
HYDRA-CELL[®] PRO
SEAL-LESS PUMP TECHNOLOGIES



High Pressure Cleaning in Food Plants

Location	USA	Hydra-Cell model	Various
Type of application	High Pressure Cleaning	Flow rate	Various
Liquid	Water	Pressure	Various
Application details	In these various installations where room allowed for generous length of flex lines in and out, the pumps run much quieter than previous installed technologies, and had the least realised downstream pulsation. Oversizing the suction line to aim for 1-2 feet/sec velocity was also very beneficial. The motors were controlled with VFDs to ramp up and down as necessary on demand using pressure sensors with feedback to the VFD to control the pump speed to maintain the desired pressures. While each pump has a PRV on downstream line, there is very little water bypassed when controlling with VFD. This helped to maximise the l/pm available downstream. Wash water in food plants is commonly 140F(60 deg C). Where food grade oil was necessary, an oil cooler/filtration accessory was used in high duty (hours) installations.		
Advantages of Hydra-Cell pump on this application			

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The image shows a complex industrial setup for pork production. It features a grey metal frame with three levels. On each level, there is a blue electric motor connected to a black and silver pump or motor unit. These units are connected to a network of stainless steel pipes. The pipes run horizontally and vertically, with some having pressure gauges attached. A red ladder is positioned on the left side of the frame. In the foreground, there are two large red cylindrical objects, possibly part of a conveyor system or storage. The background is a plain white wall with some electrical conduits.

Pork production



