

Application story



High Pressure Transfer of Various Hydrocarbons

Location	Green River, WY USA (Installation: Summer 2020)	Hydra-Cell model	T100ERSGHFESBS x2
Type of application	High Pressure Transfer of Various Hydrocarbons	Flow rate	21.6 m3/hr (95 gpm)
Liquid	Butane Propane Natural Gas Liquids	Pressure	63 bar (910 psi)
Application details	A major natural gas processing company extracts heavier and more valuable hydrocarbon components as a mixed NGL stream. In a process known as fractionation, these parts are then separated further for end-use sale. The NGL products include propane, normal butane, isobutene, natural gasoline, and other primary products such as ethylene and propylene. The pumps are centrally located to accept hydrocarbons from the fractionation towers and transfer into storage for eventual shipment by truck or pipeline. The cut-off measure for fugitive emissions is 500 ppm in the vapour space surrounding the pumps. The previous triplex reciprocating pumps could not be properly sealed from fugitive emissions. Duty is intermittent. Pumps are isolated when not in use, due to high pressure in lines. Isolation is via pneumatic actuated valves. The company then installed two Hydra-Cell T100 models. Its compact footprint saves valuable space, and the seal-less design contains the fugitive emissions. Due to high pressure in the lines, the pumps are isolated using pneumatic-actuated valves when not in use. A custom heat blanket (Class 1, Div. 2 rated) with thermostatic controls keeps the hydraulic end of the pump at 40°F (5°C).		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: • 100% containment; eliminating leakage of emissions. • Smaller footprint		

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