

G20F Pump **Case Study**

Tank Bottom Recirculation



USA - Gulf Coast

Tank bottom recirculation is the process of recirculating crude oil, NGLs and paraffins periodically in order to keep the product from separating prior to further processing. When these products are extracted from the well and processed through separators, a gear pump has been commonly used to recirculate the oil, NGLs and paraffins. This has been problematic for the gear pump. The solids and abrasives wear the internal gears, causing a reduction in flow. The water does not provide lubrication for the gears, causing premature failure.

A USA Gulf Coast company has been converting to the [SANDPIPER G20F pump](#) for their tank bottom recirculation applications over the past year. The SANDPIPER G-Series Heavy Duty Flap Valve pump allows for the passage of entrained solids and can pump NGLs without prematurely failing the internal pump components. The natural gas side of the SANDPIPER G-Series flap valve pump is fitted with FKM elastomers to provide enhanced chemical compatibility when being powered by natural gas.

Requirements

- Pump fluids with abrasives & settling solids without affecting pump performance
- Reliably pump heavy viscous crude
- Pump NGLs without prematurely failing internal pump components
- On / Off reliability & operator friendly
- Deadhead safely and runs dry
- CSA certified: safe for natural gas operation

Solution

- SANDPIPER G-Series 2" Heavy Duty Aluminum Flap Valve Pump
- FKM diaphragms and flaps to handle hydrocarbons
- Flap valves allow for easy passage of fluid with entrained solids
- SANDPIPER's exclusive ESADS+ Air / Gas distribution system's patented, lube-free design offers complete in-line serviceability
- Designed to operate at a 1:1 ratio and pumps fluid without a gradual loss of flow brought on by wearing parts
- Natural gas driven, no electricity required in remote locations and all natural gas is recovered using a VRU
- SANDPIPER distributor provides excellent service and support



SANDPIPER®

800 North Main Street
Mansfield, OH 44902

419-524-8388

sandpiperpump.com



FIND A DISTRIBUTOR →