

# FLARE KNOCKOUT PUMP







## APPLICATION

**Flare knockouts** are a critical application within the oil and gas market. During the process of oil and gas production and refinement, gasses are circulated at high pressure. As with any manufacturing process, maintenance is required and slowdowns are expected. During these important and mandatory times it is imperative to release this gas in a safe and effective manner. Flare knockouts let the production equipment burn off the unneeded gas while this process is taking place. Flares can also be used to regulate the over-pressuring of production equipment day to day.

During the gas flaring process, natural gas liquids (NGL's) from the gas stream will drop out prior to flare. The NGL's will need to be pumped into a vapor-liquid separator or "knockout drum" upstream. The team at SANDPIPER realized the need for a safe and reliable way to move this fluid. SANDPIPER's G-Series GODD dual powered pump can safely be powered by natural gas or compressed air.

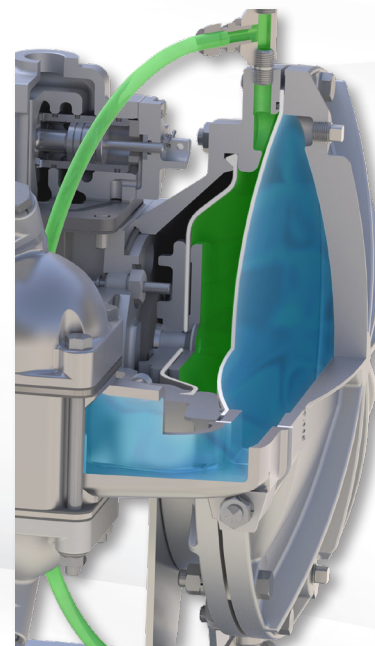
If compressed air is the primary energy source, SANDPIPER's Containment Duty pump is the choice with safety in mind. It will ensure in the case of diaphragm failure, the air will not enter the product stream causing potential uncontrollable combustion.







## REQUIREMENTS

-  Safe in potentially explosive atmospheres
-  Compatibility with NGL's on wet end
-  Compatibility with both sweet and sour gas
-  Intermittent operating conditions
-  Dry running capabilities
-  Deadhead safely without need of by-pass valve

## SOLUTION

- SANDPIPER G-Series Pumps comply with all necessary safety regulations - including CSA and ATEX
- G-Series Pumps offer the broadest range of size and material - including Stainless Steel gas valve and FKM elastomers for higher temperatures and enhanced chemical compatibility
- 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 without a gradual loss of flow brought on by wearing parts
- SANDPIPER Containment Duty Pumps provides an extra layer of protection when used to move potentially dangerous materials



-  **NO** Safety & Environmental Hazards
-  **NO** Costly Clean-up & Maintenance
-  **NO** Interruption of Operations
-  **NO** Loss of System fluid
-  **NO** Extended Downtime
-  **No** Product / Process Contamination from Air Supply

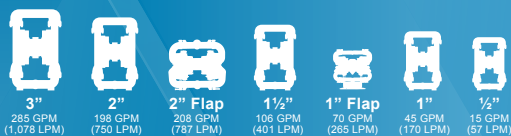




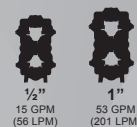
# COMPETITOR

SANDPIPER PUMPS EXCEL IN EVERY ASPECT OF  
SAFETY AND RELIABILITY WITHIN THE OIL & GAS INDUSTRY

## WIDEST AVAILABLE RANGE



## SIZE & FLOW



## WIDEST TEMPERATURE RANGE



## TEMP



## BROADEST CERTIFICATIONS IN THE INDUSTRY

### SAFETY COMPLIANCE WITH:



## SAFETY

### SAFETY COMPLIANCE WITH:



ONLY ½" AND 1" SIZES

## LARGEST SOLIDS PASSAGE

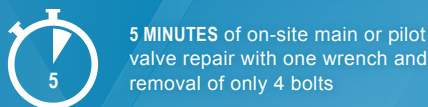


## SOLIDS HANDLING

TOP DISCHARGE ONLY Up to ¼"



## EASE OF REPAIR AND LESS DOWNTIME

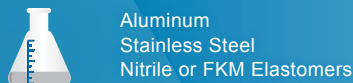


## GAS / AIR VALVE REPAIR

55 MINUTES of off-site main and pilot valve repair with a variety of tools needed to remove pump from line and transport for repair



## ENHANCED TEMPERATURE RESISTANCE AND CHEMICAL COMPATIBILITY



## GAS / AIR END MATERIALS

LIMITED  
Aluminum only  
Nitrile Elastomers only



## BEST GUARANTEE IN THE INDUSTRY



## PERFORMANCE RELIABILITY

LIMITED  
Connecting Rod prone to bending  
5-year Limited Warranty



Warren Rupp, Inc.  
A Unit of IDEX Corporation  
800 North Main Street  
Mansfield, OH 44902 USA



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Visit [www.sandpiperpump.com](http://www.sandpiperpump.com) for more information