

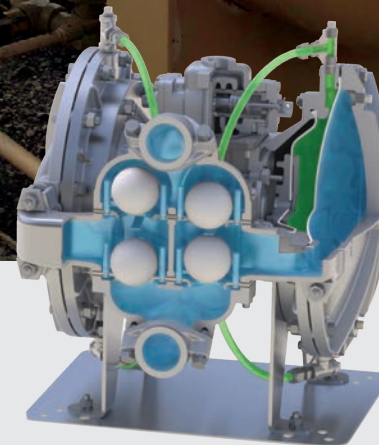
**EPA OR OSHA
KNOCKING AT YOUR DOOR?**

SANDPIPER HAS THE SOLUTION

For your Flare Knockout Drum Needs



Natural Gas or Compressed Air, SANDPIPER has a pump that will safely and efficiently move your liquid drop out from Flare Knockout Drums.



Natural Gas Powered:

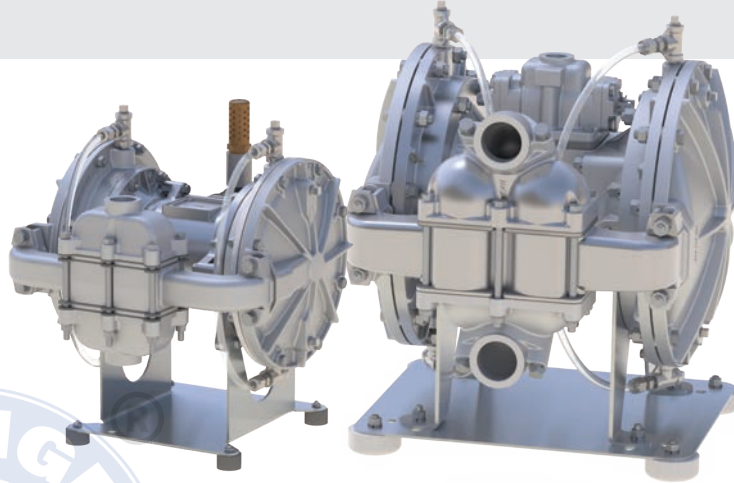
- SANDPIPER has the largest portfolio of product certified by the Canadian Standards Association, CSA.
 - Blue Star (ANSI LC6)
 - Blue Flame (Canadian Technical Letter R-14)
- Size – ½" to 3"
- Hydrostatic testing to 500 psi

Compressed Air Powered:

- SANDPIPER is the only AODD Pump company to offer a containment style unit.
 - Prevents contaminating spills via barrier fluid and secondary diaphragm
 - Prevents air from entering system creating potentially explosive environment
- Leak Detection: Visual, Mechanical, Electronic

What Makes SANDPIPER Pumps So Easy?

- SANDPIPER is the only diaphragm pump in the market to offer an Externally Serviceable Air Distribution System (ESADS+) where both the main air valve and pilot valve are accessible without removing the pump from the system.
- All bolted construction. No struggling with leaking, stretched band clamps.
- 5 Year manufacturers warranty.
- No critical alignment, leveling, or seals.
- Lube-free design.
- All metallic construction, no plastic center sections.



Containment Duty

Air Driven

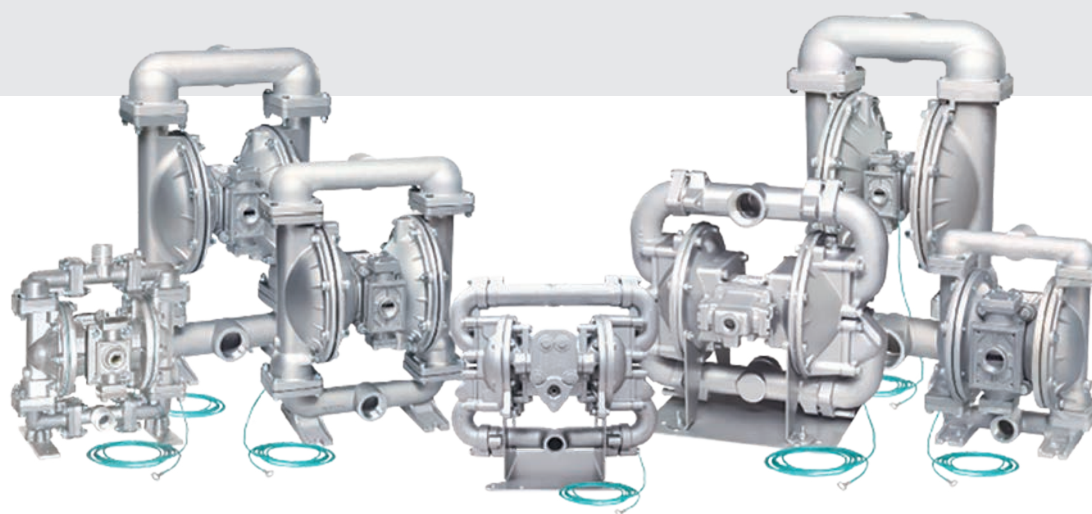
- **Porting:** 1-3"
- **Flow:** 0-280 GPM (1060 LPM)
- **Elastomers:** Santoprene / PTFE / Buna-Nitrile / FKM-Viton / EPDM / Neoprene
- **Castings:** Aluminum / Cast Iron / Stainless Steel / Alloy C





SANDPIPER Pumps Feature:

- On-Off-On reliability. Cross drilled, non-stalling spool technology.
- Constructed to prevent the accumulation of static electric charge and fully groundable to ensure static electricity dissipation (comes standard with attached grounding strap)
- Elastomeric seals have been tested for compatibility with the various chemicals normally expected to be found in both sweet and sour gas
- Compliant certifications to adhere to Oil and Gas market regulations.



G-Series Dual Power

Natural Gas / Air Driven

- **Porting:** Ball – 1/2"-3" / Flap – 1" and 2"
- **Flow:** 0-235 GPM (889 LPM)
- **Elastomers:** PTFE / Buna-Nitrile / FKM-Viton
- **Castings:** Aluminum / Stainless Steel



Company Location:

Headquarters- Fort Worth, TX.
Installation- Permian Basin

Company Industry: Energy Sector –
Oil and Gas

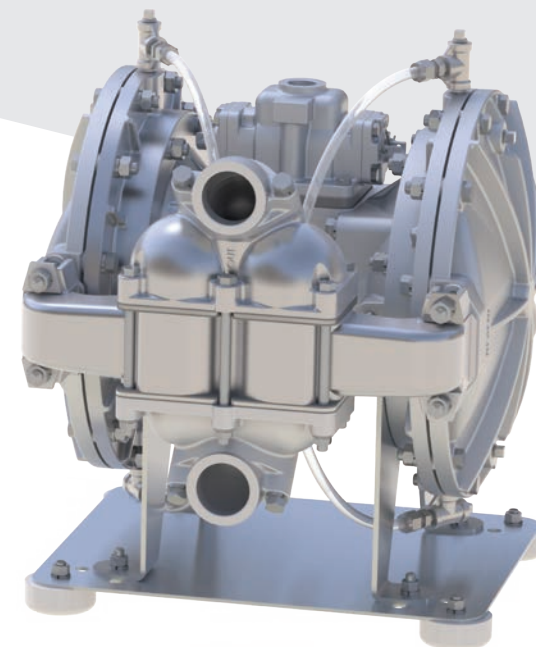
AODD Pumps in Facility: Containment
Duty ST1 & ST1 ½ pumps

Site Uses: Sump & General Transfer of
Hydrocarbon Liquids

A large energy company embarked on developing several production sites throughout the Permian basin, and needed a double diaphragm pump to safely transfer liquids for sump/general transfer. They originally were interested in using standard double diaphragm pump technology but quickly realized that when a diaphragm fails, the compressed air power source could be introduced to the fluid side of the pump. The Project Engineer was concerned about when the diaphragm fails, the compressed air could reach the combustible liquid.

SANDPIPER **Containment Duty Pumps** were specified for safe & reliable transfer of Oil & Gas production liquids. They were installed in transfer applications where the pumped fluid cannot be exposed to compressed air. Due to the combustible nature of the liquid, it is critical that a safety system be in place to avoid catastrophic failure and extended downtime.

SANDPIPER's Containment Duty pumps can easily transfer natural gas liquids, condensate, as well as other liquids containing hydrocarbons from one process to another. Since air is the primary energy source, SANDPIPER Containment Duty was the choice with safety in mind. Safe in potentially explosive atmospheres, chemical compatibility with NGL's on the wet side, safe dry running and dead heading, and will ensure, in the case.

**SANDPIPER®**

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