



OIL & GAS

UPSTREAM & MIDSTREAM



THE SANDPIPER ADVANTAGE

PUMPS BUILT FOR YOUR OIL & GAS APPLICATIONS

SANDPIPER has been a leading global Air Operated Double Diaphragm (AODD) pump company for over 50 years, featuring the broadest range of products to meet the needs of a wide variety of applications.

Decades of innovation, combined with world class engineering expertise allows the SANDPIPER team to create products that meet the demand of an ever-changing marketplace. Learn more at SANDPIPERPUMP.COM.

FEATURES & BENEFITS

SAFETY

SANDPIPER pumps comply with the broadest set of certifications and standards in the industry



GUARANTEED RELIABILITY

- All pumps come with a 5-Year Limited Warranty
- ESADS+Plus Air / Gas Valve guaranteed not to stall
- Corrosion resistant stainless steel diaphragm connecting rod guaranteed not to bend

DUAL POWER SOURCES

All SANDPIPER pumps operate using compressed air, but we also have CSA Certified G-Series pumps available for running off of your local reserve of natural gas

FULLY GROUNDABLE

Pumps are ATEX compliant and safe in potentially explosive atmospheres by ensuring static electricity dissipation



ALL BOLTED CONSTRUCTION

Superior reliability is defined by our all bolted pump construction that allows for instant part alignment, uniform torquing of seals and high pressure capabilities

TESTED QUALITY

SANDPIPER pumps are 100% wet tested after final assembly to ensure proper functionality; testing includes, but is not limited to, deadheading, priming and sealing



SANDPIPER G SERIES

DIAPHRAGM PUMPS FOR THE OIL & GAS MARKET

Traditional AODD pumps are designed for use with air only. Over the years, oil and gas operators have opted to power their diaphragm pumps with easily accessible natural gas. The application of AODD pumps driven by natural gas created a unique set of safety requirements that previously did not exist. In 2003, SANDPIPER recognized the need and partnered with the Canadian Standards Association (CSA®) to lead the development of the first-ever safety certification for Gas Operated Double Diaphragm (GODD) pumps.

CSA Certified GODD pumps are designed and tested to be powered by natural gas when installed according to the certification and local requirements. SANDPIPER is the only GODD pump manufacturer that offers a full range of CSA Blue Star (ANSI LC6) / Blue Flame (Canadian Technical Letter R-14) Certified pumps from ½" to 3" sizes. Our G-Series Dual Power pump line carries the most stringent certifications for safety and reliability for oil and gas applications.

SAFETY

The Widest Range of Certified Safe & Reliable Natural Gas Operated Pumps



SANDPIPER'S CSA CERTIFIED G-SERIES PUMPS MEET THE UNIQUE SAFETY REQUIREMENTS FOR DIAPHRAGM PUMPS OPERATED BY NATURAL GAS:

- Constructed to prevent the accumulation of static electric charge and fully groundable to ensure static electricity dissipation (comes standard with attached grounding strap)
- Withstand a hydrostatic strength test pressure of 500 PSI (five times the maximum operating pressure of 100 PSI, the highest standard in the industry)
- Canadian Technical Letter R-14 requires 500 PSI
- ANSI LC6 requires 400 PSI
- Hydraulic Institute requires 188 PSI
- Elastomeric seals have been tested for compatibility with the various chemicals normally expected to be found in both sweet and sour gas
- Every pump is leak tested to 150 PSI at the factory before packaging to ensure natural gas emissions are properly contained
- Comply with NACE Standard MR0175/ISO 15156 for corrosion resistance

AIR / GAS DISTRIBUTION SYSTEM - A SANDPIPER EXCLUSIVE

ESADS+PLUS: Independent of the pilot valve position, the cross-drilled pressure ports in the main directional air / gas valve spool provide a pneumatic bias of the spool at either end of travel. This is accomplished by directing (inner) chamber pressure to the end of the spool, boosting and sustaining pilot pressure until point-of-shift of the pilot valve. **EXTERNALLY SERVICEABLE AIR / GAS DISTRIBUTION SYSTEM INCLUDES:**

- Complete in-line serviceability
- Lube-free, consistent restarts
- On-off-on reliability guaranteed
- **PATENTED** cross-drilled pressure ports

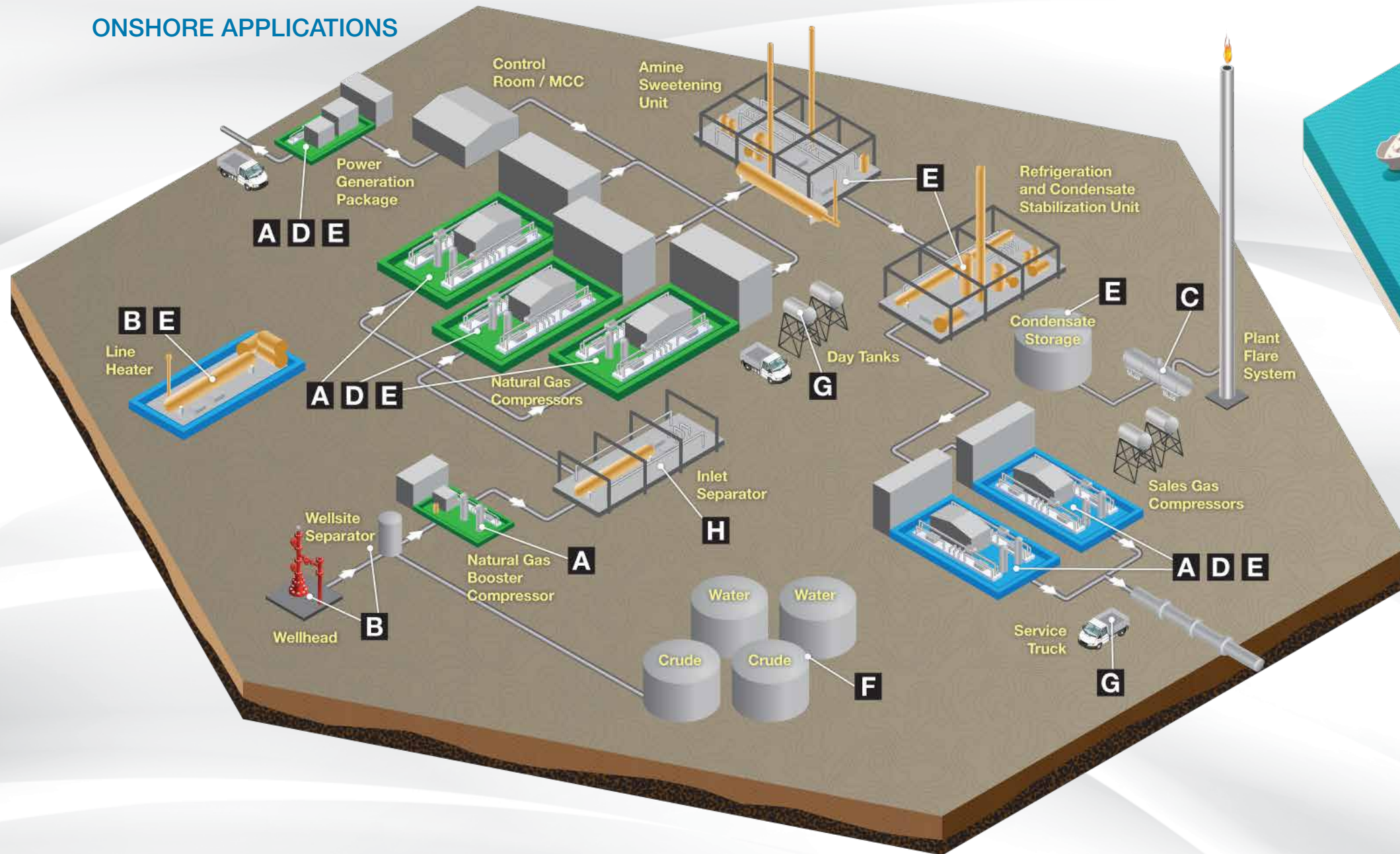
SCAN TO WATCH THE ESADS+PLUS VIDEO
SANDPIPERPUMP.COM/ESADSVDO



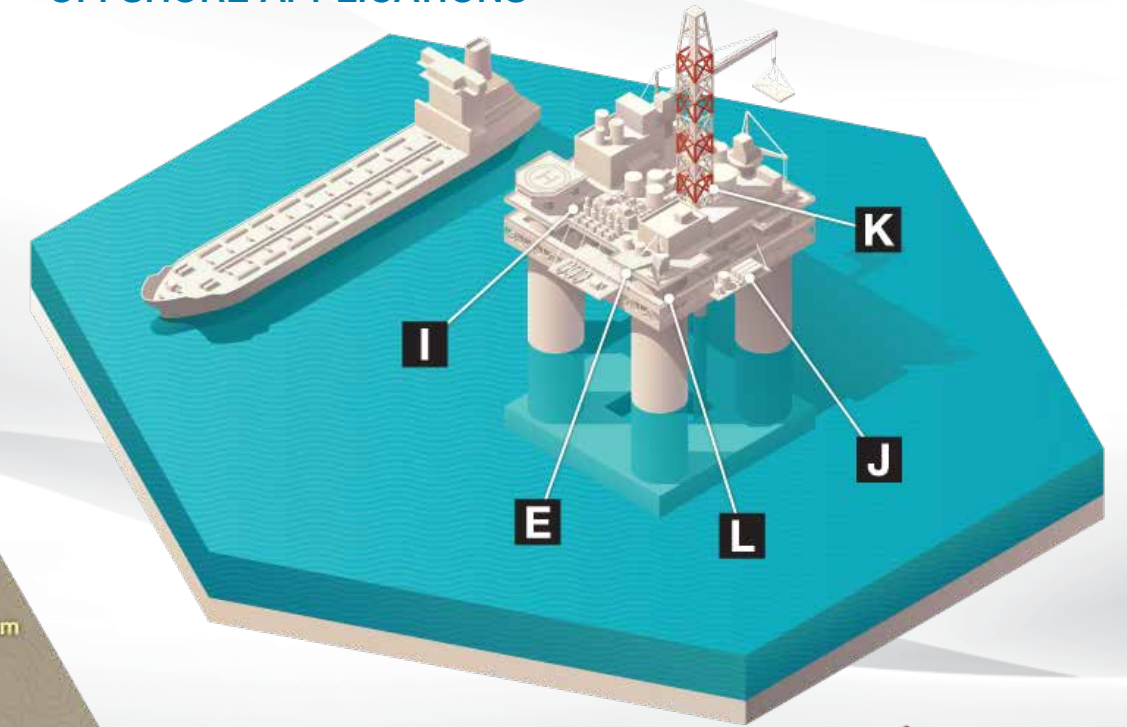
OIL & GAS PROCESS MAP

LAND, OFFSHORE & DRILLING RIG APPLICATIONS

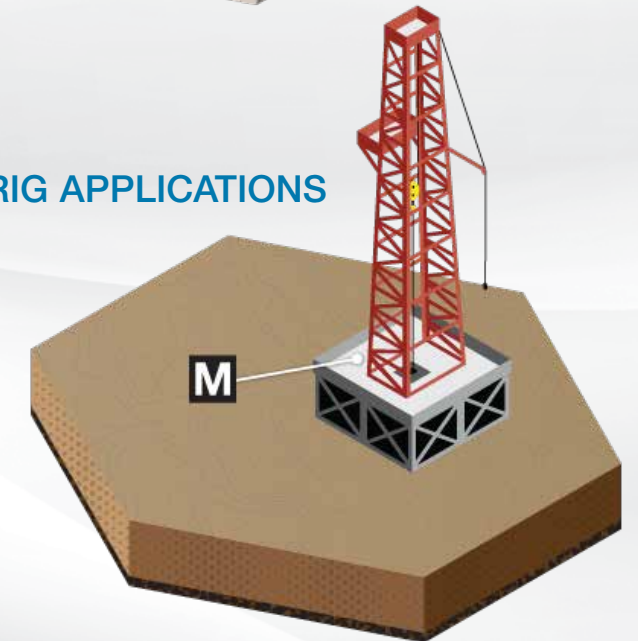
ONSHORE APPLICATIONS



OFFSHORE APPLICATIONS



DRILLING RIG APPLICATIONS



APPLICATIONS KEY:

- | | | | |
|---|---|--|--|
| A Lube Oil Transfer (G05, G1F) | E Sump / General Transfer (G05, G1F, G15, G10F, G20F) | H Separators & Knockout Drums (G20, GH2-M) | L Produced Water / Condensate Transfer (G1F) |
| B Glycol Recirculation / Heat Trace (G05, G1F) | F Tank Bottom Recirculation / Transfer (G10F, G20F, G20, G30, GH2-M) | I General Duty Spill Clean-Up (G20F, G20, G30) | M Cellar Pump-Out & Mud Transfer (G20F, HDF2, HDF3, SMA3) |
| C Flare Knockout (G1F, G15, G20, ST1, ST1½) | G Utility / General Transfer (G05, G1F, G15, G10F, G20F) | J Diesel Fuel Transfer (G15) | |
| D Glycol Transfer / Water Make-Up (G05, G1F) | | K Sea Water Pump for Drilling Mud Make-Up (G30) | |

KEY APPLICATIONS

WHY SANDPIPER WINS

FLARE KNOCKOUT

G1F, G15, G20, ST1, ST1½



✓ APPLICATION DESCRIPTION

Capturing natural gas liquids (NGLs) from gas stream prior to flare; pumps transfer NGLs to tank storage or back into the process

📄 APPLICATION PUMP REQUIREMENTS

- Gas or Air Operated
 - G Series: Air or Gas
 - ST Series: Air Only
- Safe in potentially explosive atmospheres
- Compatibility with NGLs on wet end
- Compatibility with both sweet and sour gas
- Abrasive resistance to handle paraffins and sand
- Solids handling
- Dry running capability
- Deadheads safely

? WHY SANDPIPER WINS IN THIS APPLICATION

🏠 G-SERIES

- Complies with the **MOST STRINGENT** safety and reliability certifications in the industry
- The **ONLY** full range of CSA Certified pumps from ½" to 3" sizes with flow capacity up to 285 GPM (1,078 LPM)
- The **WIDEST TEMPERATURE RANGE** in the industry from -10°F to 180°F (-23°C to 82°C)
- **EXCLUSIVE** Stainless Steel gas valve and FKM elastomer options for higher temperatures and enhanced chemical compatibility with sour gas (high H₂S content) & corrosive additives

⊕ ESADS+PLUS

- Offers 5 minutes of on-site main or pilot valve repair with one wrench and removal of only 4 bolts

🏆 GUARANTEED RELIABILITY

- 5-Year Limited Warranty
- Non-Stalling Air / Gas Valve Performance Guarantee
- Diaphragm Connecting Rod Guarantee

TANK BOTTOM RECIRCULATION / TRANSFER

G10F, G20F, G20, G30, GH2-M



✓ APPLICATION DESCRIPTION

Recirculation of tank bottoms to keep oil, paraffins & NGLs from separating prior to sending product to separators or hauling off for processing; pumps transfer product from tank to tank

📄 APPLICATION PUMP REQUIREMENTS

- Air or Gas operated
- Safe in potentially explosive atmospheres
- Compatibility with oil, NGLs and water on wet end
- Compatibility with both sweet and sour gas
- Solids handling
- Abrasive resistance to handle paraffins and sand
- Dry running capability
- Deadheads safely
- Self-priming
- Pumps fluids ranging from non-lubricating water to viscous crude oil

? WHY SANDPIPER WINS IN THIS APPLICATION

🏠 G-SERIES

- Complies with the **MOST STRINGENT** safety and reliability certifications in the industry
- The **ONLY** full range of CSA Certified pumps from ½" to 3" sizes with flow capacity up to 285 GPM (1,078 LPM)
- The **WIDEST TEMPERATURE RANGE** in the industry from -10°F to 180°F (-23°C to 82°C)
- **EXCLUSIVE** Stainless Steel gas valve and FKM elastomer options for higher temperatures and enhanced chemical compatibility with sour gas (high H₂S content) and corrosive additives
- The **ONLY** flap valve pump in the industry certified for natural gas operation
 - Flap check valves are ideal for solids up to 2" (50 mm) and abrasives such as paraffins & sand
 - Bottom discharge is ideal for pumping liquids with settling solids and slurry
 - Dry suction lift up to 24' (7 m) of water
 - Heavy Duty design features thick wall construction and extended wear package

⚡ DUAL POWER

- May be safely powered by compressed air or natural gas

KEY APPLICATIONS

WHY SANDPIPER WINS

SUMP / GENERAL TRANSFER

G05, G1F, G15, G10F, G20F



✓ APPLICATION DESCRIPTION

Sumps gather all liquids such as rain water, condensate & waste oil at the well site or off the compressors; pumps transfer product back to slop oil tanks to be hauled off for processing

📄 APPLICATION PUMP REQUIREMENTS

- Air or gas operated
- Safe in potentially explosive atmospheres
- Compatibility with waste oil, NGLs and water on wet end
- Compatibility with both sweet and sour gas
- Solids handling
- Self-priming
- Abrasive resistance
- Dry running capability
- Deadheads safely

? WHY SANDPIPER WINS IN THIS APPLICATION

+ ESADS+PLUS

- Offers 5 minutes of on-site main or pilot valve repair with one wrench and removal of only 4 bolts

🏆 GUARANTEED RELIABILITY

- 5-Year Limited Warranty
- Non-Stalling Air / Gas Valve Performance Guarantee
- Diaphragm Connecting Rod Guarantee

⚡ DUAL POWER

- May be safely powered by compressed air or natural gas

CELLAR PUMP-OUT & DRILLING MUD TRANSFER

G20F, HDF2, HDF3, SMA3



✓ APPLICATION DESCRIPTION

Rig cellar sump, mud make-up, filtration and settling pond transfer; pumps transfer liquids and drilling mud around the drilling rig site

📄 APPLICATION PUMP REQUIREMENTS

- Air operated
- Safe in potentially explosive atmospheres
- Abrasive resistance to handle drilling mud
- Solids handling
- Self-priming
- Portability
- Rugged construction to withstand the wear and tear of drilling rig applications

? WHY SANDPIPER WINS IN THIS APPLICATION

🏗️ HEAVY DUTY FLAP VALVE PUMPS

- Flap check valves are ideal for solids up to 3" (75 mm) and abrasives such as drilling mud
- Bottom discharge is ideal for pumping liquids with settling solids and slurry
- Dry suction lift up to 24' (7 m) of water
- Heavy Duty design features thick wall construction and extended wear package
- Available in roll cage or skid base configurations for portability and pump protection

+ ESADS+PLUS

- Offers 5 minutes of on-site main or pilot valve repair with one wrench and removal of only 4 bolts

🔩 DURABLE ALL BOLTED CONSTRUCTION

- Superior reliability versus traditional clamp band designs

🏆 GUARANTEED RELIABILITY

- 5-Year Limited Warranty
- Non-Stalling Air Valve Performance Guarantee
- Diaphragm Connecting Rod Guarantee

FLAP VALVE PUMPS

CSA CERTIFIED, DUAL POWER NATURAL GAS OR AIR OPERATED PUMPS

The G10F and G20F Heavy Duty Flap Valve Pumps are the newest addition to SANDPIPER's line of CSA Certified G-Series Dual Power Pumps. The flap check valve design allows passage of larger solids than traditional ball valve pumps and is ideal for abrasive slurries, suspended and non-suspended solids and line-size solids requirements.

The exclusive bottom discharge porting arrangement provides superior suction lift and eliminates the damage from settling solids in your pump. This Heavy Duty pump features thick wall construction and is enhanced with an extended wear package.

PERFORMANCE & RELIABILITY

FLAP CHECK VALVES

Ideal for abrasive and viscous fluids, sludge and slurry

SOLIDS HANDLING

Up to 2" (50mm)

SUPERIOR DRY PRIME

Dry suction lift up to 24' (7m) of water

BOTTOM DISCHARGE

Gravity assist is ideal for pumping liquids with settling solids and slurry

ESADS+PLUS AIR / GAS VALVE

Externally Serviceable Air / Gas Distribution System

ALL BOLTED CONSTRUCTION

Durable and leak free design

DURABLE DIAPHRAGM CONNECTING ROD

Guaranteed to not bend or yield in operation

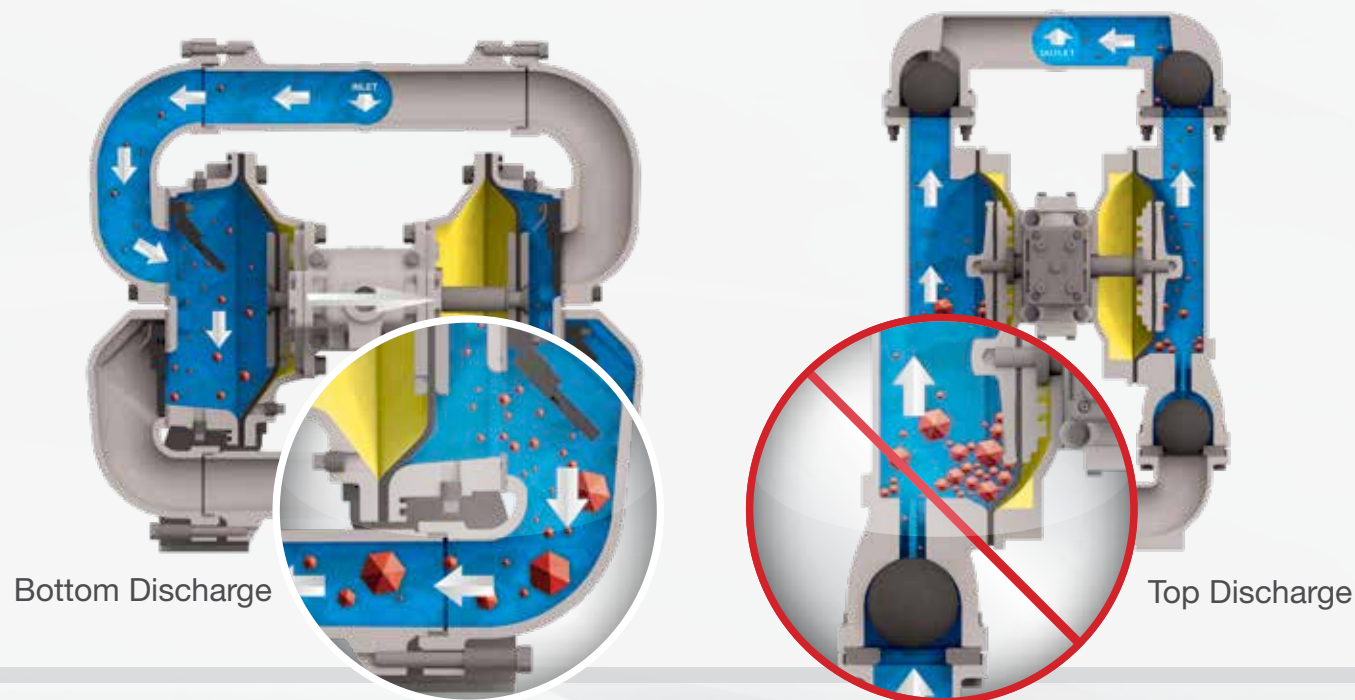
DEADHEADS SAFELY & RUNS DRY

No pump or system damage



BOTTOM DISCHARGE PORTING

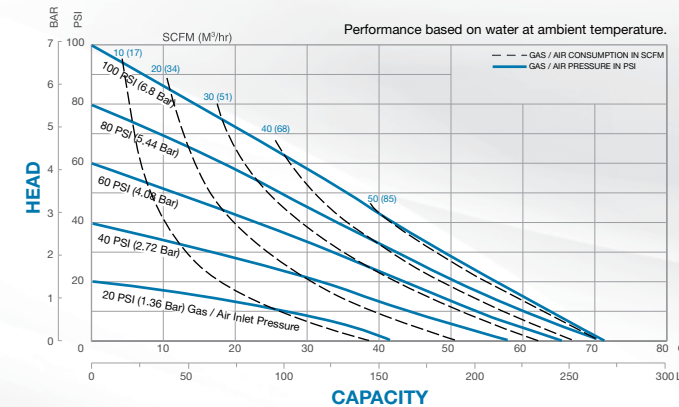
Eliminate the damage from settling solids in your pump with the exclusive bottom discharge arrangement.



1" 25MM G10F METALLIC



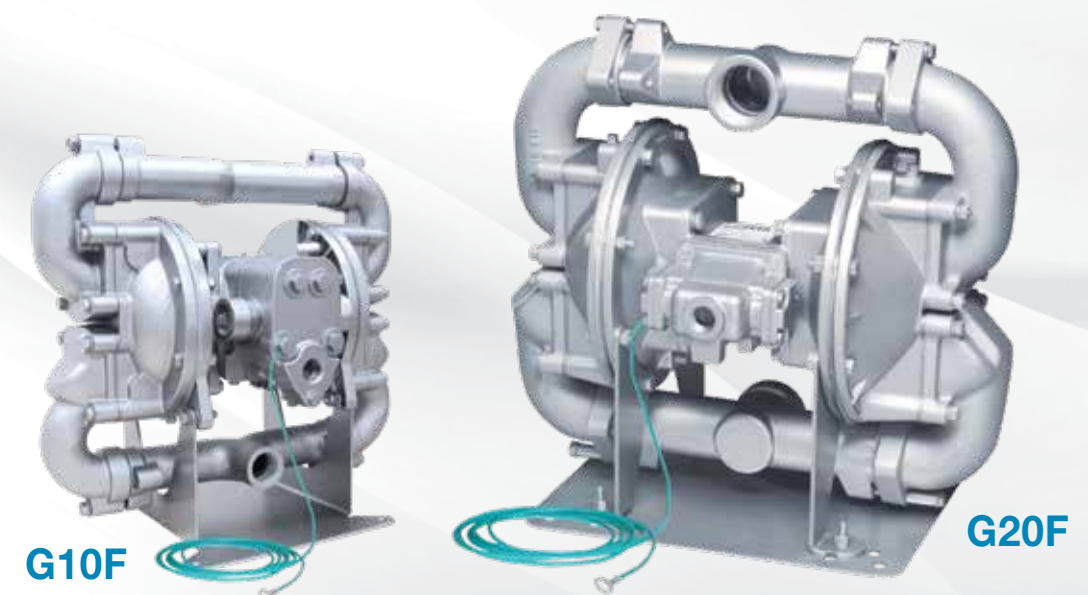
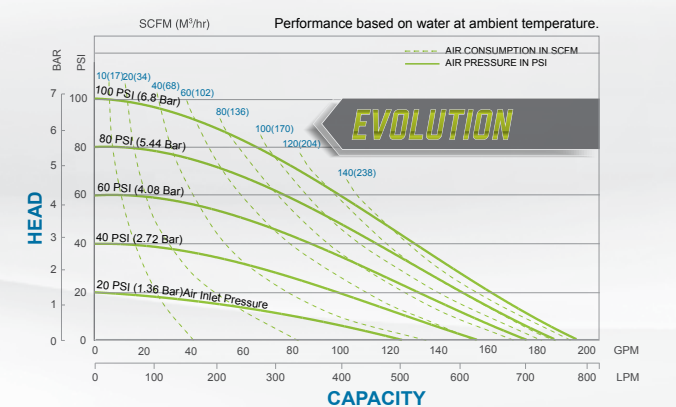
MAX FLOW: 70 GPM (265 LPM) | **PORTING:** NPT/BSP (tapered)
GAS/AIR END: Aluminum, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or FKM Diaphragm / Check Valves



2" 50MM G20F METALLIC



MAX FLOW: 208 GPM (787 LPM) | **PORTING:** NPT
GAS/AIR END: Aluminum, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or FKM Diaphragm / Check Valves



BALL VALVE PUMPS

CSA CERTIFIED, DUAL POWER NATURAL GAS OR AIR OPERATED PUMPS

The Sandpiper CSA Blue Star (ANSI LC6) / Blue Flame (Canadian Technical Letter R-14) certified G-series Ball Valve pumps features the broadest range of products, 1/2" to 3" sizes, to meet the demands of a wide variety of Oil & Gas applications.

The Innovation and engineering expertise allows the SANDPIPER team to produce a pump line with the most rigorous certifications for safety and reliability in the double diaphragm pump industry.

PERFORMANCE & RELIABILITY

HYDROSTATIC STRENGTH TEST

500 PSI (34.5 BAR)

TEMPERATURE LIMITS

-10°F (-23°C) to 180°F (82°C)

NITRILE OR FKM ELASTOMERS

Air/Gas End options for varying temperatures and chemical compatibility

EXTERNALLY SERVICEABLE AIR DISTRIBUTION SYSTEM

Allows for quick and easy access to the main air drive components without disassembly of the entire pump and / or removing it from service

ALL BOLTED CONSTRUCTION

Ensure sealing forces are applied evenly across the pump for leak-free operation

ROBUST DIAPHRAGM CONNECTING ROD

Guaranteed not to bend or break; assures reliable and consistent diaphragm operation

LARGE FLOW AREA

Reduces fluid velocity through pump, which often lessens wear

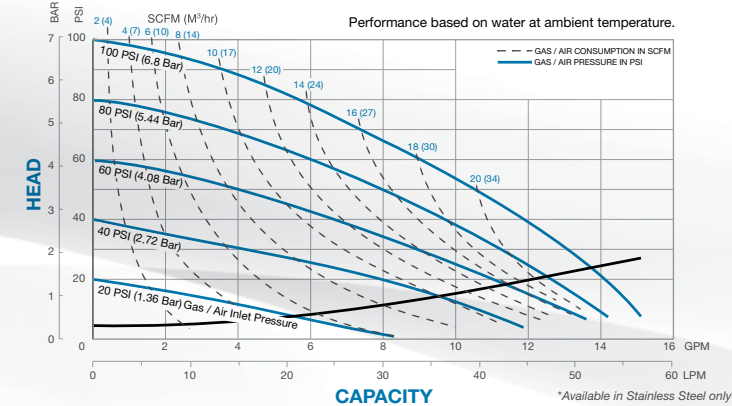
THICK MANIFOLD & CHAMBER WALLS

Greater wear resistance when pumping solids and solid-laden slurries, providing extended service life



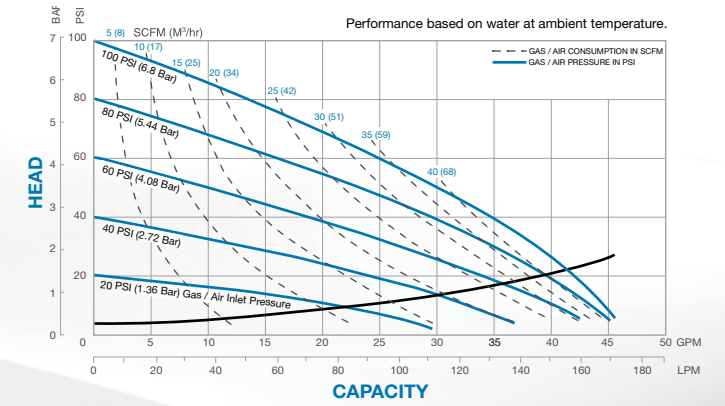
1/2" 12MM G05 METALLIC

MAX FLOW: 15 GPM (57 LPM) | **PORTING:** NPT/BSP (tapered), ANSI Flange*
GAS/AIR END: Aluminum, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or PTFE Diaphragm / Check Valves



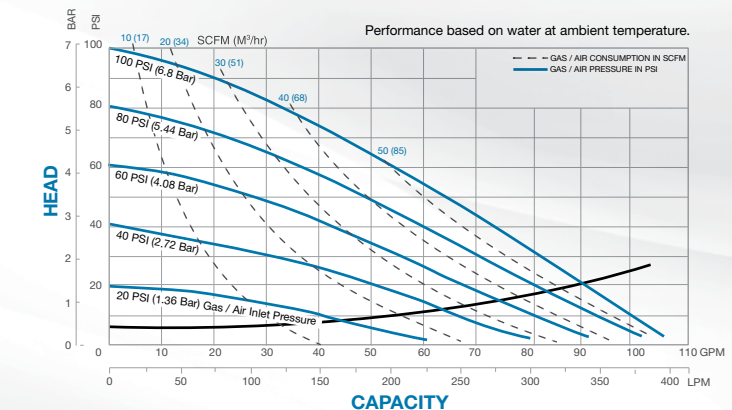
1" 25MM G1F METALLIC

MAX FLOW: 45 GPM (170 LPM) | **PORTING:** NPT/BSP (tapered), ANSI Flange
GAS/AIR END: Aluminum, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or PTFE Diaphragm / Check Valves



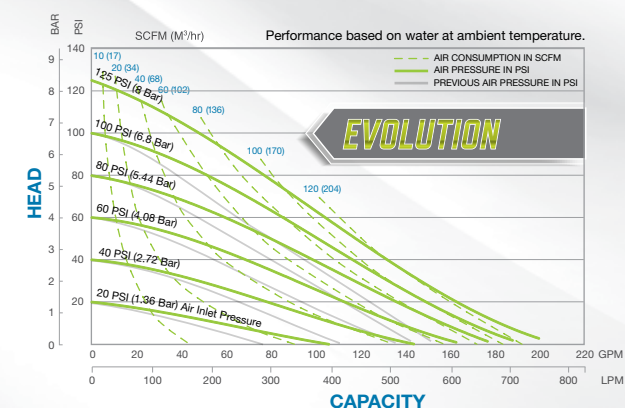
1 1/2" 38MM G15 METALLIC

MAX FLOW: 106 GPM (401 LPM) | **PORTING:** NPT/BSP (tapered), ANSI Flange
GAS/AIR END: Aluminum, Stainless Steel, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or PTFE Diaphragm / Check Valves



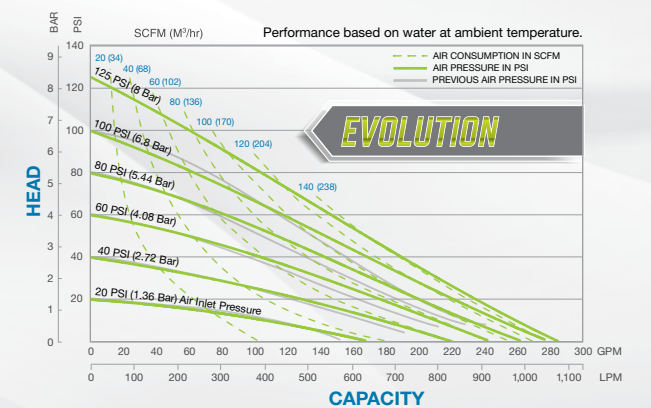
2" 50MM G20 METALLIC

MAX FLOW: 200 GPM (757 LPM) | **PORTING:** NPT/BSP (tapered), ANSI Flange
GAS/AIR END: Aluminum, Stainless Steel, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or PTFE Diaphragm / Check Valves



3" 75MM G30 METALLIC

MAX FLOW: 285 GPM (1,079 LPM) | **PORTING:** NPT/BSP (tapered), ANSI / DIN Flange
GAS/AIR END: Aluminum, Stainless Steel, Nitrile or FKM Elastomers
WET END: Aluminum, Stainless Steel, Nitrile or PTFE Diaphragm / Check Valves



DUAL POWER

DESIGNED & TESTED TO BE SAFELY POWERED BY COMPRESSED AIR OR NATURAL GAS

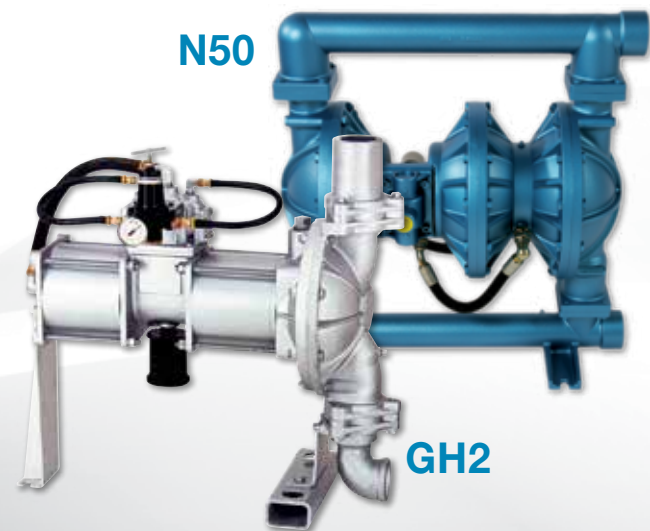
SPECIAL DUTY PUMPS

PERFORMANCE & SPECIFICATIONS

HIGH PRESSURE PUMPS

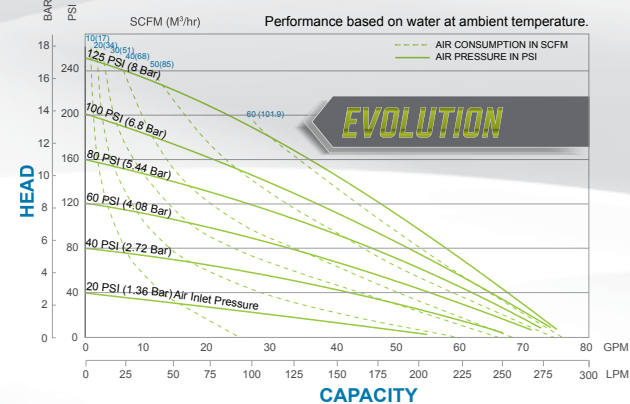
SANDPIPER GH2-M Single Diaphragm High Pressure Metallic Pumps deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR). Designed for Oil & Gas applications requiring higher discharge pressures. Available in Cast Iron and Stainless Steel with various elastomer options. Equipped with elastomeric seals and components that are compatible with the various chemicals normally expected to be found in natural gas.

Blagdon N50 High Pressure Pumps provide enhanced power in applications where pressure is paramount and flow rate is an issue. Using two air chambers to double the air per stroke, these pumps achieve discharge pressures up to 238 PSI (16 BAR) with flow rates as high as 90 GPM (341 LPM).



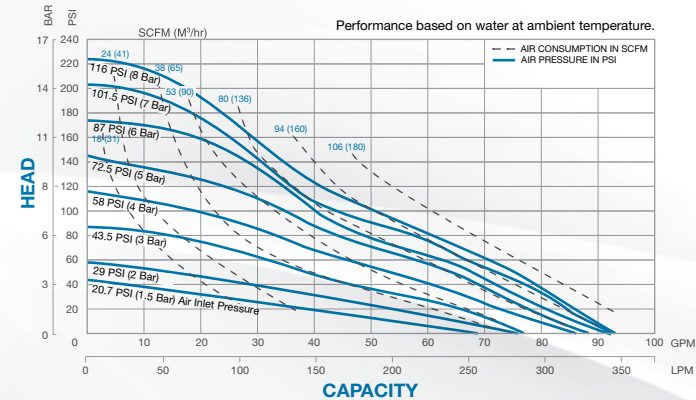
2" 50MM GH2-M METALLIC

MAX FLOW: 74 GPM (280 LPM) | PORTING: NPT
AIR END: Cast Iron
WET END: Cast Iron, Stainless Steel



2" 50MM N50 METALLIC

MAX FLOW: 90 GPM (341 LPM) | PORTING: NPT / BSP
AIR END: Aluminum
WET END: Stainless Steel



SUBMERSIBLE PUMPS

SludgeMaster™ Centrifugal Air-Powered Trash Pumps can handle mud, leaves, twigs, sand, sludge, trash-laden water and soft solids up to 1 1/2" (3.8cm). High capacity, low head.

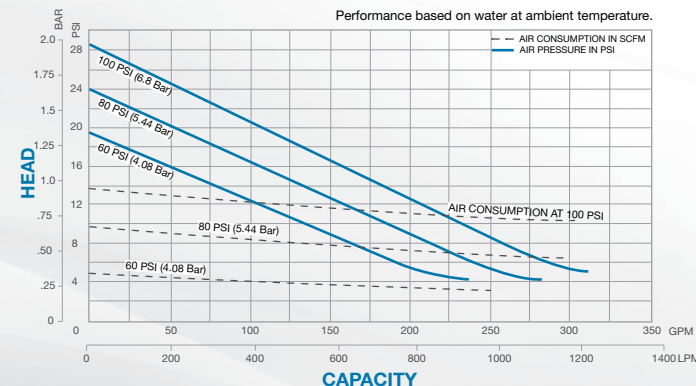
These pumps weigh only 59 pounds (26kg), and can fit through an opening as small as 14" (35cm). Sturdy construction for rough handling and long life. Optional rock screen available.



SMA3

3" 75MM SMA3 METALLIC

MAX FLOW: 300 GPM (1,136 LPM) | PORTING: NPT / BSP
AIR END: Aluminum
WET END: Aluminum



NATURAL GAS ACCESSORIES

GAS LINE PREPARATION & REGULATION FOR SAFETY & IMPROVED PUMP LIFE

CSA CERTIFIED NATURAL GAS PRESSURE REGULATORS

The **ONLY** CSA Certified point-of-use natural gas regulators available on the market today!



A safety port has been added to help prevent escaping gas in the case of a regulator diaphragm rupture. Simply add a pipe or hose fitting to the unit to divert or reclaim any natural gas.

SANDPIPER Natural Gas Pressure Regulators are safe, reliable and environmentally friendly. These exclusive CSA Certified and UL Listed point-of-use regulators provide superior regulation and excellent stability. All regulators include a durable glycerin filled pressure gauge to dampen the effects of pulsation and vibration common in pump applications.

TECHNICAL SPECIFICATIONS

Part Number	Port Size	Max Flow (SCFM)	Pump Models	Max Inlet Pressure	Regulating Pressure Range	Temperature Rating	Materials of Construction
020.057.000	1/4" NPT	25	G05	250 psi 17.2 bar	0 - 120 psi 0 - 8.3 bar	0°F - 160°F -17.8°C - 71.1°C	Aluminum, Brass, Plated Steel, Nitrile
020.058.000	1/2" NPT	110	G1F, G10F	400 psi 27.6 bar	0 - 125 psi 0 - 8.6 bar	-40°F - 200°F -40.0°C - 93.3°C	Zinc, Aluminum, Plated Steel, Nitrile, Brass
020.059.000	3/4" NPT	110	G15, G20	400 psi 27.6 bar	0 - 125 psi 0 - 8.6 bar	-40°F - 200°F -40.0°C - 93.3°C	Zinc, Aluminum, Plated Steel, Nitrile, Brass
020.060.000	3/4" NPT	260	G20F, G30	400 psi 27.6 bar	0 - 125 psi 0 - 8.6 bar	-40°F - 200°F -40.0°C - 93.3°C	Zinc, Aluminum, Plated Steel, Nitrile, Brass

Diaphragm Material: Nitrile elastomer with polyester fabric.
All gauge ports & vent ports are tapped 1/4" NPT.
Replacement pressure gauge part number: 020.061.000.

Note: The use of a relief valve is recommended for these products in accordance with NFPA 58.

NATURAL GAS FILTERS

SANDPIPER Natural Gas Filters provide superior particulate protection from systems with high concentrations of solid contaminants. These point-of-use filters are built from durable and lightweight aluminum, feature very high dirt-holding capacity and offer lower pressure drop than other comparable products.

TECHNICAL SPECIFICATIONS

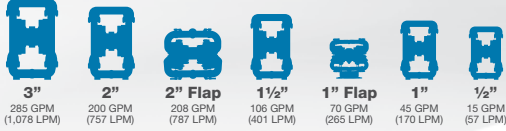
Part Number	Port Size	Max Flow (SCFM)	Pump Models	Replacement Filter Element	Max Inlet Pressure	Max Temperature	Materials of Construction
020.062.000	1/4" NPT	25	G05	020.065.000	500 PSI (34 BAR)	175°F (80°C)	Aluminum Housing, Nitrile Seals, Molded Urethane End Seals
020.063.000	1/2" NPT	42	G1F	020.065.000			
020.064.000	3/4" NPT	133	G10F, G15, G20, G20F & G30	020.066.000			

Stainless Steel manual drain 1/8" NPT
Micron Rating: 3

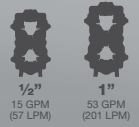


SANDPIPER PUMPS EXCEL IN EVERY ASPECT OF SAFETY AND RELIABILITY WITHIN THE OIL & GAS INDUSTRY

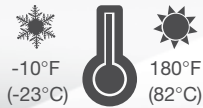
WIDEST AVAILABLE RANGE



SIZE & FLOW



WIDEST TEMPERATURE RANGE



TEMP



BROADEST CERTIFICATIONS IN THE INDUSTRY

SAFETY COMPLIANCE WITH:



SAFETY

SAFETY COMPLIANCE WITH:



LARGEST SOLIDS PASSAGE

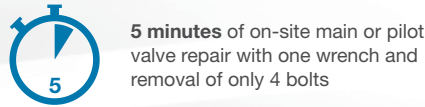


SOLIDS HANDLING

TOP DISCHARGE ONLY
Up to ¼"



EASE OF REPAIR & LESS DOWNTIME

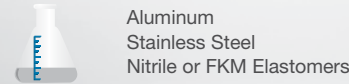


GAS / AIR VALVE REPAIR

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

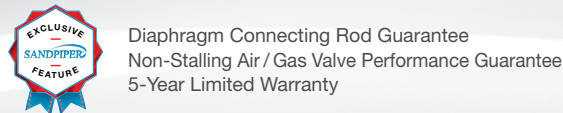


GAS / AIR END MATERIALS

LIMITED
Aluminum only
Nitrile Elastomers only



BEST GUARANTEE IN THE INDUSTRY



PERFORMANCE RELIABILITY

LIMITED
Connecting Rod prone to bending
5-year Limited Warranty



LEARN MORE AT: SANDPIPERPUMP.COM

