FEATURES & BENEFITS:

Multiple Sealing Options
- Single cartridge mechanical seal standard
- Double and tandem cartridge mechanical seals available
- Capable of accepting an API 682 seal

Durable Construction
- Heat treated shaft and spur gears provide reliable service
- Internal surfaces are Vitek hardened to increase wear resistance

Modular Port Design
- 6”, 180° 4 bolt ports standard
- Weldneck port adapter design allows for multiple interchangeable flange options
- Common Port Location (CPL) feature allows for installation of lower flow rate pumps when well production decreases without welding or piping modifications

Compact Footprint
- External gear design is significantly more compact than screw, reciprocating, and centrifugal technologies
- Direct drive, motor-speed operation eliminates the need for gearboxes or belt drives
- Standard inverter duty rated motors

Reduced Maintenance
- Back pull-out seal design and spacer coupling eliminate the need to disturb piping or perform alignments during seal changes
- Rigid structural steel base with milled mounting pads and jacking bolts for ease of field alignment
- No pulsation dampeners, gear reducers, belt drives, or additional equipment to service and maintain

PERFORMANCE:

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>Ports*</th>
<th>Nominal Flow @ 750PSI (1,190 rpm) on 4 cP</th>
<th>Nominal Flow @ 1,500PSI (1,190 rpm) on 4 cP</th>
<th>Max Continuous Pressure</th>
<th>Max Recommended Temperature</th>
<th>Approximate Shipping Weight (Pump Only)</th>
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</thead>
<tbody>
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<td>Inch</td>
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<td>BPH</td>
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* 6" port uses 3000 Series Square Weldneck Flange Adapter

For more information, visit VikingPump.com/Pipeline-Injection
VIKING GEAR PUMPS VS. RECIPROCATING TECHNOLOGY:

- Lower total cost of ownership
  - Smooth flow eliminates the need for pulsation dampeners
  - Motor-speed operation eliminates the need for belt drives
  - Compact design results in a smaller skid and reduced shipping costs
- Multiple sealing options
  - Large selection of seals to accommodate individual application requirements
  - Leak detection solutions available
- Standard 1,500 PSI pressure capabilities
- Simple design
- Reduced maintenance
  - No check valves or seats to replace
  - No lube oil or oil changes required
  - No belt drives to service and maintain
  - No pulsation dampeners to maintain
- Significant space and weight savings

VIKING GEAR PUMPS VS. CENTRIFUGAL HSP TECHNOLOGY:

- Smaller physical footprint
  - Smaller complete package size, specifically at higher differential pressures
  - No additional cradle supports on longer pumps, which complicate alignment
  - Up to 15’ shorter units, allowing smaller buildings or fabricated skid bases
- Smooth, linear curve flow and pressure capabilities
  - No need for complex control valves
  - Positive displacement pumps perform better in variable flow and pressure applications with less external control complexity
  - Positive displacement flow
- Better pump reliability
  - Larger drive shaft allows for better handling of radial loads
  - More robust and durable, especially in upset system conditions
  - Standard thrust bearings to control axial shaft movement and capable of elevated inlet pressures
  - John Crane 5611Q cartridge seal as standard
  - API 682 seal option with field interchangeability
  - Simpler design with fewer moving parts

VIKING PUMP’S COMMERCIAL ADVANTAGES:

- Over 107 years of experience in the pump industry
- Extensive distribution network and direct OEM channel ensure fast and knowledgeable service
- USA based, vertically integrated manufacturing: Products are produced from our own foundry, machine shop, test and assembly stands, and shipping department, all located in Cedar Falls, IA
- Part of IDEX Corporation, a $2 billion corporation