



Horizontal Pumping System

Bid farewell to your daily maintenance costs

Lower your total cost of ownership with a modular, resilient design adapted to your application.

Our re-designed Horizontal Pumping System (HPS) is built to last. The HPS offers an extended operational life, reduced maintenance, and flexible, easy deployment in ever-changing site conditions.

Our modular design serves a wide range of pressures and flows to cover all your applications. The HPS may be pre-wired for instrumentation and the Guardian™ VFD system to keep you connected to your assets at all times. Our new HPS product line complements the already vast pump portfolio that NOV offers to ensure you get the right pump for the right application, every time.

The HPS features a mechanical seal system that can be replaced in as little as 15 minutes, using a process that does not disturb the motor and piping connections and requires minimal or no realignment. Leveraging decades of experience from the proven Mission™ Magnum™ centrifugal pump, our field-serviceable HPS thrust chamber is assembled with top-brand, angular contact bearings. Providing site flexibility and reduced lead times, our HPS skid system features a rigid steel frame and modular components, which were designed using the latest 3D modeling software and Finite Element Analysis to resist motor torsion and limit vibration to extend pump life.

Work smarter, not harder, with an optional equipment upgrade.

GoConnect™ equipment monitoring solution powered by NOV Max. Reduce maintenance costs, extend the life of your assets, and avoid unplanned downtime.

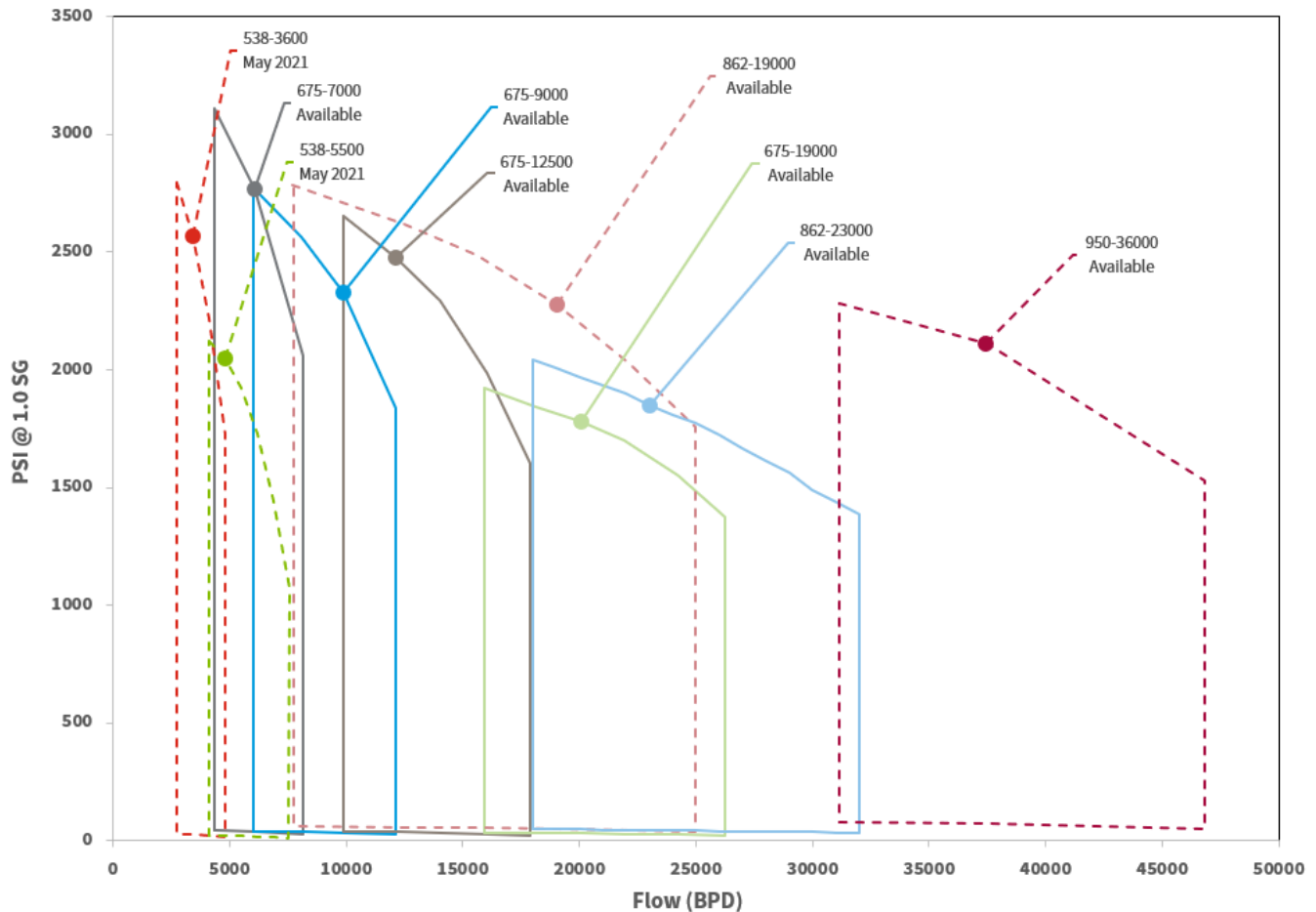
HPS applications:

- Saltwater disposal
- Crude oil pipeline
- Natural gas pipeline
- Lean amine
- Enhanced oil recovery (CO₂ and water injection)

Features and Benefits

- Quick change mechanical seal
 - Replace the seal without disturbing the motor or piping connections
- Robust, adaptable—steel frame and modular sections
 - Provides easy, streamlined installation for foundation, building, or trailer locations
- Centrifugal pump with impellers and diffusers
 - Eliminates daily maintenance costs, lowers environmental impact
- Minimal vibration operation
 - Increases meantime between failure and run life
- Field-serviceable thrust chamber
 - Allows fast field service and repair while not disturbing the motor or pump

Series 538/675/862/950 60HZ - Hydraulic Coverage



NOV Horizontal Pumping System Specifications

Performance

Capacity.....105-960 GPM
 Discharge pressure.....Up to 3,000 PSI
 Suction pressure.....Up to 285 PSI
 Temperature range.....-20 to 280F°
 Power.....Up to 1,000 HP
 Testing capability.....Up to 1,000 HP

Materials

Impellers and diffusers.....Ni-Resist, Duplex Stainless Steel
 Shafts.....Monel®, Inconel®
 Suction and Discharge.....316 stainless steel
 Sleeve bearings.....Ni-Resist, tungsten carbide
 Flanges.....ANSI 150 up to 2,500 RF and RTJ
 Barrel housing.....Carbon steel, stainless steel