



FULL PRODUCT GUIDE



PERFORMANCE

QUALITY

SERVICE

TRUST

Delivering Vertical Turbine Pump
Reliability, Quality
and Service Since 1969



| Pump Type | 6" - 30" Vertical Deep Well | Close Coupled Vertical Turbine | 6" - 30" Submersible Turbine |
|-----------------------------|--|--|---|
| Application | Agricultural Irrigation, Municipal Water Supply, Industrial Process Water, Golf Course & Turf Irrigation, Dewatering, Offshore Platforms | Fuel Oil Transfer & Storage, Water/brine Injection, Light Hydrocarbon Service, Raw & Potable Water Supply, Pipeline Boosters, Cooling Tower Service, Desalinization, Dry Docks | Agricultural Irrigation, Municipal Water Supply, Industrial Process Water, Golf Course & Turf Irrigation, Dewatering, Offshore Platforms, Booster Pumps |
| Description | Water or oil lubricated lineshaft, threaded or flanged column pipe | Product lubricated or enclosed lineshaft, mechanical seals or stuffing box | Vertical deep well, vertical booster, horizontal in-line booster pumps |
| Materials | Cast iron enameled bowls, bronze impellers, bronze or rubber bearings as standard; special materials available | Cast iron enameled bowls, bronze impellers, threaded or flanged column pipe, special coatings and materials available | Cast iron enameled bowls, bronze impellers, threaded or flanged column pipe, special coatings and materials available |
| Performance Capacity | To 20,000 GPM | To 20,000 GPM | To 20,000 GPM |
| Head (TDH) | To 2,000 Ft. | To 2,000 Ft. (865 PSI) | To 2,000 Ft. |
| Horsepower | Up to 1500 hp with electric motor or right angle gear drive. VFD, electric motor with solid or hollow shaft available | Up to 1500 hp with electric motor or right angle gear drive. VFD, electric motor with solid or hollow shaft available | Submersible electric motor up to 1500 hp 2, 4, 6 pole speeds |
| Model | 6"-30" diameter bowls NF fab. steel heads N260 — Hi-Pro heads | 6"-30" diameter bowls NF, NLF, NTF, NUF heads | 6"-30" diameter bowls S6 — S30 |
| Features and Options | Extra lateral for deep set pumps up to 1200 Ft., chrome plated bowl shaft, LH or RH oil tube | Suction bell, single or dual wear rings, dynamic balanced impellers, keyed or colletted impellers | Flanged connection on bowls, motor brackets for all motor sizes |

- ▶ API/Oil & Gas
- ▶ Commercial
- ▶ Industrial
- ▶ Irrigation
- ▶ Mining
- ▶ Municipal
- ▶ Residential



| Pump Type | API 610 | Test Facilities | 4", 6", 8" Stainless Steel Submersible |
|-----------------------------|--|---|--|
| Application | Pipeline Booster, Condensate Return, Light Hydrocarbon Transfer, Crude Oil Booster, Flare Knockout, Secondary Recovery Injection, Offshore Fire Water and Process Water, Aircraft Hydrant Fueling, Slop Oil, Cooling Tower | <i>Type of Tests:</i> Bowl assembly, complete unit performance, mechanical run, NPSH testing, string test 40 Ft. TPL max, vibration, hydrostatic testing, witness and non-witness testing | General water supply, booster, sump circulation and irrigation |
| Description | API-610 vertically suspended single casing type VS-1 and vertically suspended double casing type VS-6 | <i>Size:</i> 18 Ft. wide x 16 Ft. deep x 45 Ft. long Two (2) 5 Ft. diameter holes extend to depth of 45 Ft. 100,000 gallon capacity | Threaded connections, completely submerged sealed motor. 2 and 3 wire; 1 phase and 3 phase oil filled, rewindable motors available |
| Materials | <i>API-610 Materials Classes:</i> I-1, I-2, S-1 thru S-9 C-6, A-7, A-8, D-1 | Threaded and flanged connections, complete units or de-staged, with calibrated motors to measure full performance range in flow, head and efficiency | Pro Series — Stainless Steel, with Noryl impellers and diffusers Max Purity & NS Series All Stainless Steel |
| Performance Capacity | 50 GPM - 20,000 GPM | To 20,000 GPM | To 110 GPM 5 GPM to 600 GPM |
| Head (TDH) | To 3000 Ft (1,300 PSI) | To 300 Lb flange (rated at 750 PSI) | To 1,000 Ft. To 1,450 Ft. |
| Suction Discharge | 2" - 24" ANSI flange sizes 150# - 1500# ANSI Ratings | 2" - 16" discharge | N/A 1 1/4" - 5" |
| Horsepower | To 2,500 HP | 5 to 1,000 HP @ 3600 RPM (460 & 4160 Volt), 1800 RPM, 900 RPM | 1/2 to 10 HP – 4" 5 to 200 HP – 6" & 8" |
| Model | 6" thru 30" bowl sizes Fabricated types "L", "F", and "T" style discharge heads | All National Pump Company pumps can be tested as well as other manufacturer's pumps | Pro Series Pro-Pressure Max Purity NS Series |

MAXIMUM Efficiency
MAXIMUM Performance
MAXIMUM Dependability



| High Pressure Booster Pumps | Self-priming Shallow Well and Convertible Jets | Vertical Horizontal Multi-stage Deep Well Jets | Self-priming Centrifugal | End Suction Centrifugal and Split-case |
|--|--|--|--|---|
| General purpose booster, warm and cold water wash down, cleaning | Residential and general water supply systems, booster and light irrigation | General water supply, booster, sump circulation and irrigation for 2", 3" & 4" or larger water wells | Lawn sprinkling, light irrigation, general dewatering and sump drainage, liquid transfer | General purpose, process, booster and liquid transfer |
| Threaded connections, motor-drive, mechanical seals, ODP and TEFC motors | Threaded connections, motor-drive, mechanical seal, back pull-out design, convertible to deep well use | Threaded connections, motor-drive, mechanical seals 2 stage or 3 stage | Fast priming, threaded connections, motor and engine drive, portable or permanent installation, mechanical seals, back pull-out design | Frame mounted and motor-drive, ODP and TEFC, mechanical seals-standard and high temperature, back pull-out design |
| Stainless Steel and cast iron with Noryl impellers and diffusers | Cast Iron with Noryl impellers or brass impellers | Cast Iron with Noryl impellers or brass impellers | Cast Iron with Noryl impellers or brass impellers | Cast Iron with Noryl impellers or brass impellers |
| To 70 GPM | To 30 GPM | To 64 GPM | To 220 GPM | To 2500 GPM |
| To 390 Ft. | To 248 Ft. | To 350 Ft. | To 165 Ft. | To 450 Ft. |
| ¾" to 1 ¼" suction 1 ¼" - 2" discharge | 1 ¼" suction ¾" - 1" discharge | 1 ¼" suction 1" discharge | 2" - 3" suction 1 ½" - 3" discharge | 1 ¼" - 12" suction 1" - 12" discharge |
| ½ to 3 HP | ½ to 1 ½ HP | ¾ to 2 HP | ¾ to 5 HP | 1/3 to 300 HP |
| BF5000-8000-12000 18K • 25M 50Y • 70V | SW Series SFH Series SF Series | MSH MSV MSC | SFLP BMLS | EC ES VL SC |



National Pump Company offers a variety of custom packaged pump stations. All of our packages can be custom fabricated to replace an existing system or designed to meet a new application. NPC's packages are designed around seven different control packages that range from an NPS 1, constant speed with mechanical controls to an NPS 8 for up to eight pumps with multiple motor controls utilizing VFD or Solid State Soft Starters with programmable logic controls. Each control package can be enhanced with options depending on the application. These options include, but are not limited to: sequencing, pump alternation, touch screen or push button interface, remote monitoring, NEMA 12, 3R, 4, and 4X enclosures, pressure transducers or mechanical pressure control. We offer packages complete with disconnects for single power connection or for remote panel mounting. Additionally, several mechanical options are also available, including aluminum and fiberglass station enclosures. All metal surfaces are grit blasted and powder coated for a superior, non-chip finish. All packages are U.L. Listed and designed to meet the National Electric Code.

***We also have complete CAD drawings for your engineering/specifications and approval process.
Call us today to see how we can assist...***

National Keeps You Pumping Around The World

From gold mines to golf courses to grain fields, our pumps are hard at work around the world. Serving commercial, industrial, municipal, power, residential, mining, oil and gas, and agricultural irrigation needs, each National Pump produced is an individual pumping system designed to do a specific pumping job. Precisely matched drivers, discharge heads, impellers, bowls and column / shaft assemblies deliver consistent pumping capacity.

We offer a full range of vertical turbine and submersible pumps, water or oil lubricated, of threaded or flanged construction, with capacities to 20,000 GPM and pressures up to 1,500 PSI. All pump models are in stock as standard materials, and they can be customized at the service center level. We also manufacture custom pumps, using special alloys and coatings to suit your specific needs. We have multiple patterns in order to meet special alloy requirements in a timely manner.



Delivering Pump and Pump Systems
Reliability, Quality
and Service Since 1969



Creating Quality Pump Systems and Satisfied Customers
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