

Northstar provides a “one stop” solution for your liquid handling needs.

With its ability to manufacture vertical turbine pumps ranging from 1000 GPM to 6000 GPM along with supplying you with the required electric motors, gearboxes and engines, Northstar can help you stream line your production and purchasing operations.



VERTICAL TURBINE PUMP UNITS

Northstar is a manufacturer of Vertical Turbine Pumps which can be used to handle variety of liquids from various petroleum products to sea water and condensates.

The unit’s modular bowl design provides a significant flexibility to meet a wide range of capacity, pressure and speed requirements. Furthermore, the unit’s self priming feature allows it to operate at low NSPH conditions, thus eliminating the need for a separate vacuum pump or other auxiliary equipment.

KEY BENEFITS:

- Allows for complete removal of product from the tanks without the use of vacuum pumps.
- Flexible arrangement to meet a wide range of flow rates and pressures.
- Wide range of discharge heads and arrangements.

CONSTRUCTION STANDARDS

- Ductile iron casing for longevity.
- Bronze, steel, or Stainless Steel impellers to meet variety of applications. High grade stainless steel shafting material.
- High grade stainless steel stuffing box.
- High grade stainless steel split couplings.

PRIMARY MOVERS

Whether your operations require electric motor drive units or diesel engines, Northstar can supply you with a drive package to meet your need.

If you require electric motor drives, Northstar can provide you with electric motors from trusted manufacturers such as US Motors, GE, Teco-Westinghouse, Toshiba or Baldor.

If you require diesel engines, Northstar can provide you with generators powered by Cummins, IVECO, or John Deere.

All generator packages include a PTO, are Tier III EPA Industrial certified and meet USCG’s Class 1, Division 1 requirements.

Northstar uses Amarillo gearboxes as standard gearbox on all of its pumps.

VERTICAL TURBINE PUMP PERFORMANCE RANGE

MODEL	MAX FLOW	PRESSURE RANGE (per stg)
NSVTP01	1300 GPM	82 – 34 FTH
NSVTP02	2400 GPM	124 – 58 FTH
NSVTP03	3100 GPM	150 – 64 FTH
NSVTP04	4800 GPM	200 – 75 FTH

DIESEL ENGINE DRIVE UNIT FEATURES

STANDARD FEATURES

Tier III industrial certified
Turbocharger with vertical outlet
Anticorrosion coated radiator and after cooler
Flywheel SAE 11.5”
Stainless steel gauge panel
Powder coated aluminum enclosure

Cummins, IVECO or John Deere diesel engines
Meets USCG Class 1, Division 1 requirements
Mechanical governor with weight
Exhaust system
Bosh Mechanical rotary fuel pump
Class 1 division 1 tachometer with hour meter

DESIGN CONSIDERATIONS

Material being pumped
Flow requirement (GPM)
Pressure requirement (PSI)
Overall setting height
Primary mover (electric motor or diesel engine)

Construction material (ductile iron or stainless steel)
Shaft material
Bushing material
Seal requirement (mechanical, stuffing box)
Accessories

