

# TNP series

*Non-Metallic Magnetic Drive Pumps*



**TRUFLO**

# TNPseries

Truflo's TNP series of non-metallic, magnetically driven sealless pumps are capable of flowrates to 700gpm (159m<sup>3</sup>/hr), TDH up to 330ft (101m). Temperature ranges are from -120° F (-85° C) to 250° F (121° C). Our family of pumps range from our S series, beginning size 1515, to our M series 436, to our future L series. Our TNP impeller diameters range from 5"-8", and our flanges meet either ANSI or ISO dimensional standards. Our mounting configuration is close coupled with future release designs for long coupled versions. Close coupled configurations require no alignment as the outer drive connects directly to the motor drive shaft. "No Couplings Required". Our non-rotating shaft and one piece impeller makes our design, maintenance friendly.

## Range of Operation

Our pumps incorporate a ductile iron casing that is lined with a fluoropolymer. This combination of materials allow for the mechanical strength of metal, with the corrosion resistance of a non-metallic lining. All our TNP designs use a non-rotating shaft that allows for ease of maintenance and improved performance over standard rotating shaft designs. Our rear containment shell, with its dual laminate of a fluoropolymer, is then reinforced with a vinyl ester composite for high burst pressure resistance. Our unique, no-weld impeller design has eliminated the weld associated with other designs and thus allows for a more chemical impervious barrier. Our outer magnet assemblies are designed for protection against corrosive environments.

## Sealless Design

Our magnetic design provides sealless operation and chemical containment. By virtue of being sealless, we have eliminated fugitive emissions as well as the need for expensive, complicated mechanical seal monitoring, maintenance, and replacement. Our rare earth magnets allow for superior no-slip performance.

## Non- Metallic

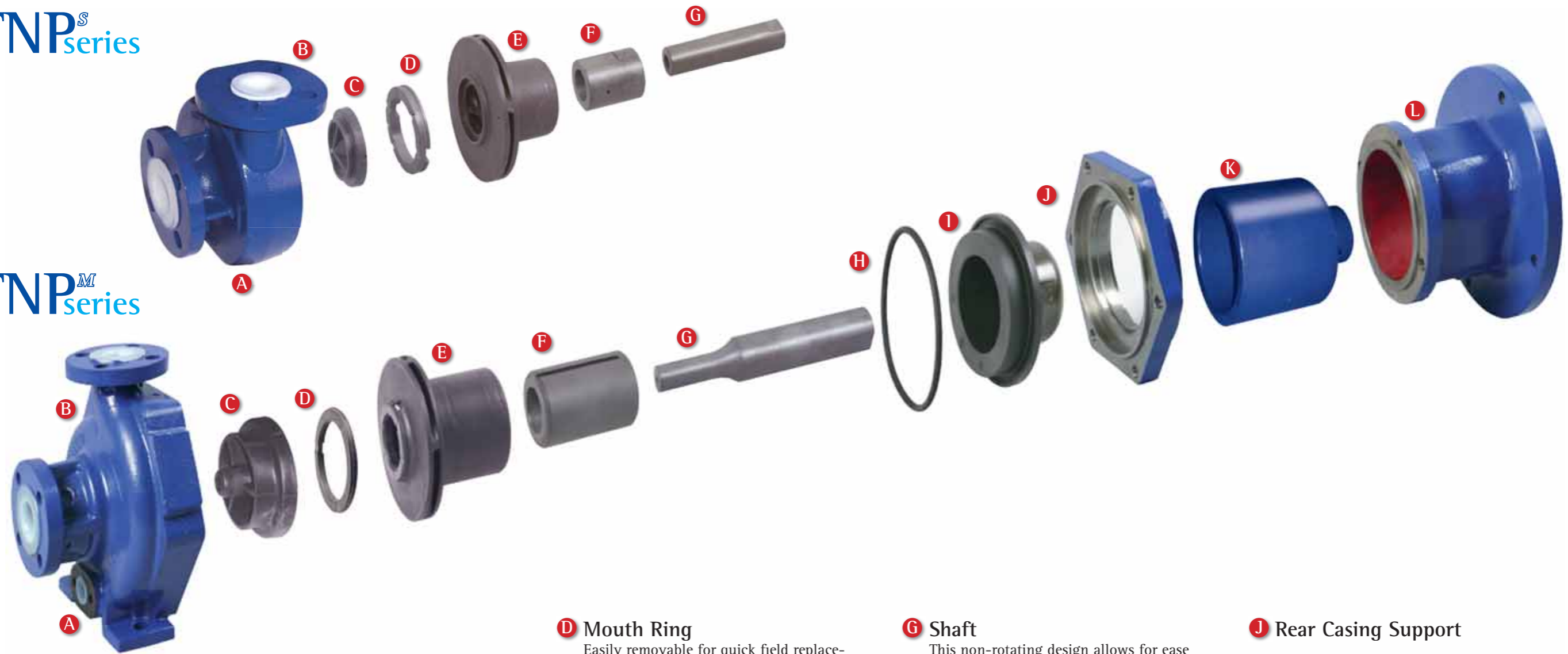
All of our wetted parts are made from ETFE or PFA fluoropolymers to handle a wide range of corrosive fluids and solvents up to 250° F. Our non-metallic rear containment eliminates unwanted "eddy currents" associated with metal designs. Truflo's design allows for little to no heat to be transferred to your pumpage and aids in the improvement in pump life from either running far left or far right on the pump performance curve.

## Cost Effective

The use of Truflo TNP non-metallic designed pumps eliminates the need for high alloy metal pumps and complicated and expensive single or double seal systems. Our designs also incorporate many common parts that allow flexibility on inventory and shared parts usage between sizes.

TNP<sup>S</sup>series

TNP<sup>M</sup>series



**A Drain**

Our casing drain is a standard feature that allows for easy and safe removal of chemicals in the casing if required.

**B Casing**

The top discharge ANSI configuration allows for maximum pump interchangeability. Our unique Roto-Molding process delivers equal delivery of liner material throughout casing for improved corrosion resistance and longer life. Available in ETFE. For PFA, please contact factory.

**C Shaft support**

One piece construction that is easily removed without the use of special tools.

**D Mouth Ring**

Easily removable for quick field replacement. The unique design allows for handling of a variety of chemicals and specific heat parameter. Available in SiC.

**E Impeller/Inner Magnet**

Our unique CFR/ETFE injection molding process allows us to ensure high Quality, Stronger, and more Chemically resistant impellers. Our process has eliminated welding that can contribute to premature impeller failure. GFR/PFA is also available.

**F Main Bushing**

Our large, one piece, high performance bushing is grooved to allow for field and particle flow through the pump.

**G Shaft**

This non-rotating design allows for ease of installation and maintenance. This shaft is oversized to handle a variety of pump requirements.

**H O-ring**

Available in either Viton or Teflon encapsulated.

**I Rear Containment Shell**

Our shell is an injection molded fluoropolymer with a composite encapsulation. This design offers some of the industries strongest containment shell burst pressure resistance.

**J Rear Casing Support**

**K Outer Magnet**

Our rare earth magnets make it possible to run the pump at rated torque throughout the temperature range without having to use special motors or starters. Our magnets are fully encapsulated for superior protection from corrosion.

**L Bracket**

Designed to mate with several motor sizes.

CFR – Carbon Fiber Reinforced

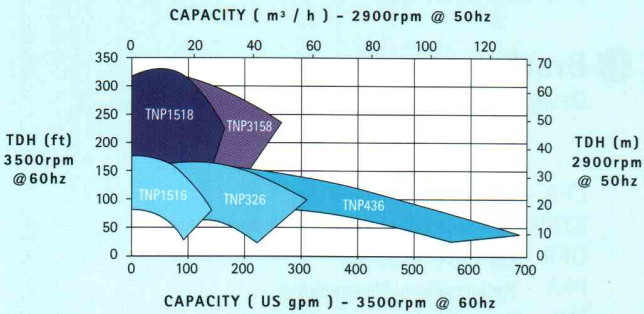
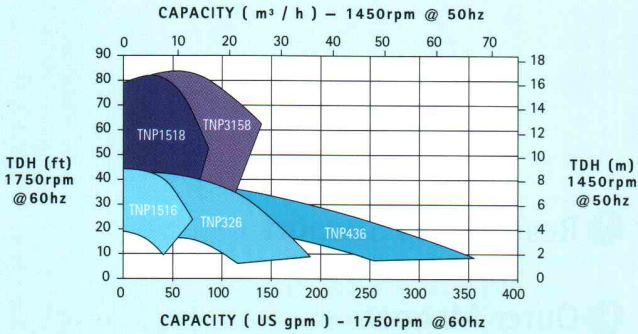
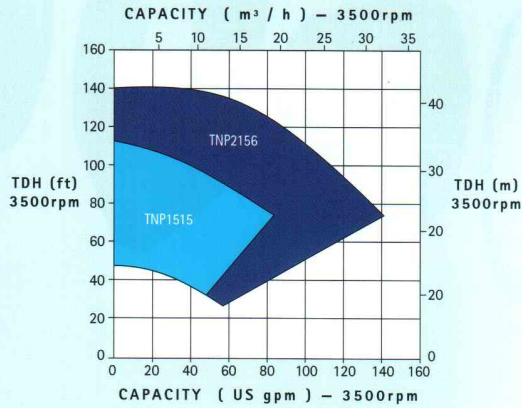
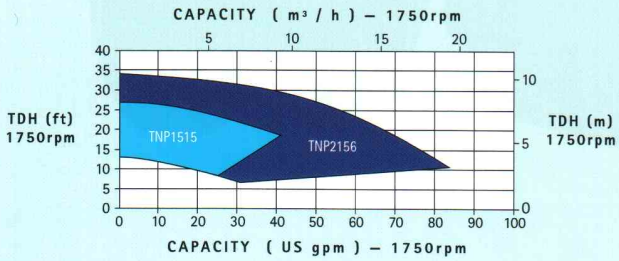
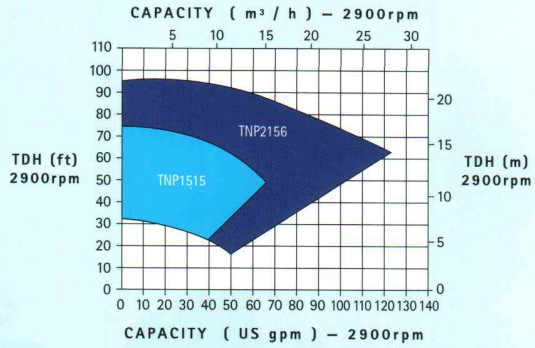
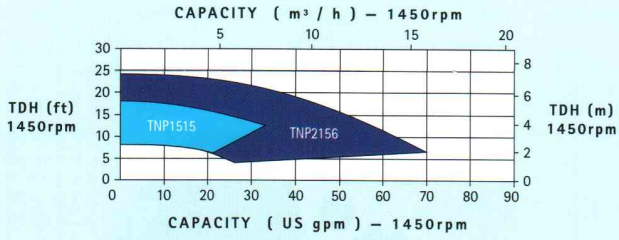
ETFE – Ethylene-Tetra-Flouro-Ethlene fluoropolymer

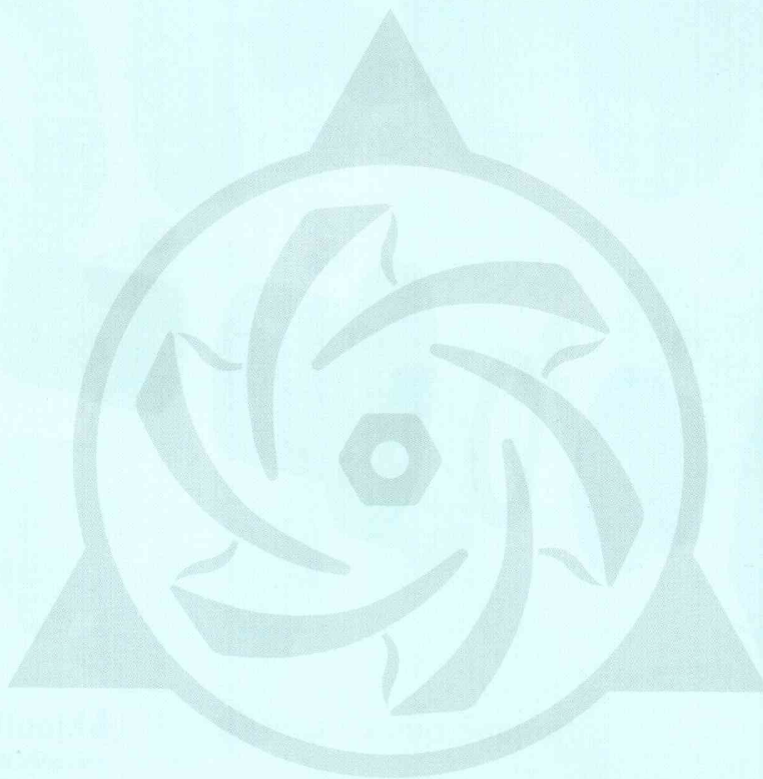
GFR – Glass Fiber Reinforced

PFA – Perfluoroalkoxy Fluoropolymer

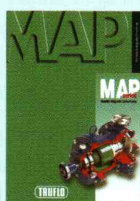
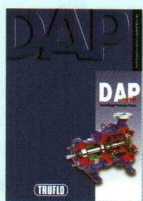
SiC – Silicone Carbide

# TNPseries Pump Selection Guide





Call for information on the full line of TRUFLO® pumps



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