

# NDP-500 Specifications

## Port Dimensions 226 GPM Max.

### Intake & discharge connection:

|                               |                 |
|-------------------------------|-----------------|
| Stainless Steel               | 2" Flange & NPT |
| Air inlet (incl. ball valve): | 3/4" Female NPT |
| Air exhaust (incl. silencer): | 1" Female NPT   |

Note: Flow rates could change based on application conditions.

## Maximum Liquid Temperature\*

| Diaphragm Material | Temperature   |
|--------------------|---------------|
| Buna N             | 180°F (82°C)  |
| Neoprene           | 180°F (82°C)  |
| Santoprene® (TPO)  | 180°F (82°C)  |
| EPDM               | 212°F (100°C) |
| PTFE               | 212°F (100°C) |
| Hytrel® (TPEE)     | 248°F (120°C) |
| Viton              | 248°F (120°C) |
| Ultimate           | 212°F (100°C) |

\*The maximum liquid temperature for metal pumps is determined by the elastomer (diaphragm material).

## Air Supply Pressure (All Models)

20–125 PSI (1.4–8.7 kgf/cm<sup>2</sup>)

## Discharge Volume Per Cycle

Rubber diaphragm: 1.14 gallons  
 Thermoplastic diaphragm: 1.22 gallons  
 PTFE diaphragm: 0.70 gallons  
 Ultimate diaphragm: 0.69 gallons

## Maximum Cycles Per Minute\*

Rubber diaphragm: 183  
 Thermoplastic diaphragm: 180  
 PTFE diaphragm: 259  
 Ultimate diaphragm: 302

\*Approximates @ 100 PSI

## Maximum Size Solid 5/16 (8mm)

## Maximum Dry Suction Lift 18 ft

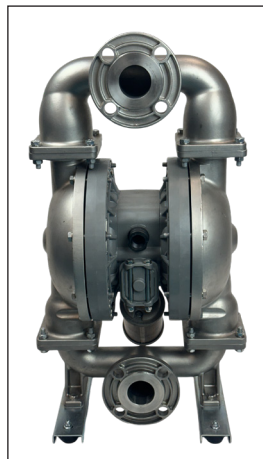
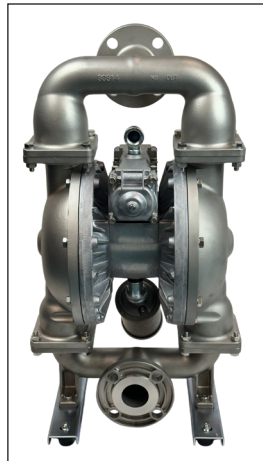
## Air Motor

Aluminum air motor standard on metal pumps.

## Air Motor Options

Polypropylene (PP) air motor on metal pumps.  
 PTFE grey coating (XP) on aluminum air motors

## Valve Type Ball



## Stainless Steel

### NPT Dimensions:

17"L x 12.84"W x 29.31"H

### Flange Dimensions:

16.69"L x 12.83"W x 30.77"H

**Net Wt.:** 134 lbs.

**Shipping Wt.:** 144 lbs.

## ← Stainless Steel (PP)

### NPT Dimensions:

16.69"L x 12.99"W x 29.13"H

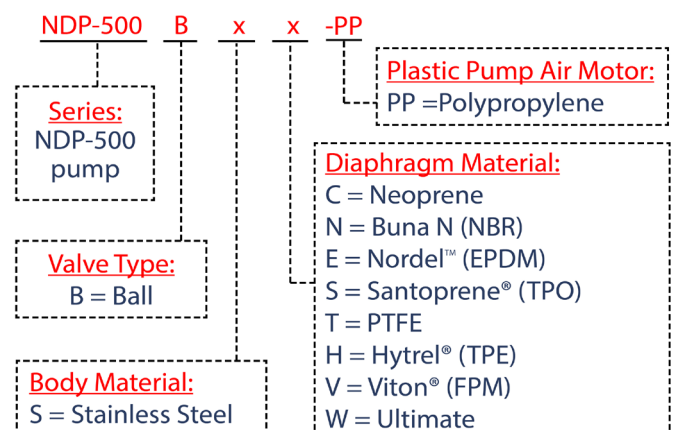
### Flange Dimensions:

16.69"L x 12.99"W x 30.77"H

**Net Wt.:** 134 lbs.

**Shipping Wt.:** 144 lbs.

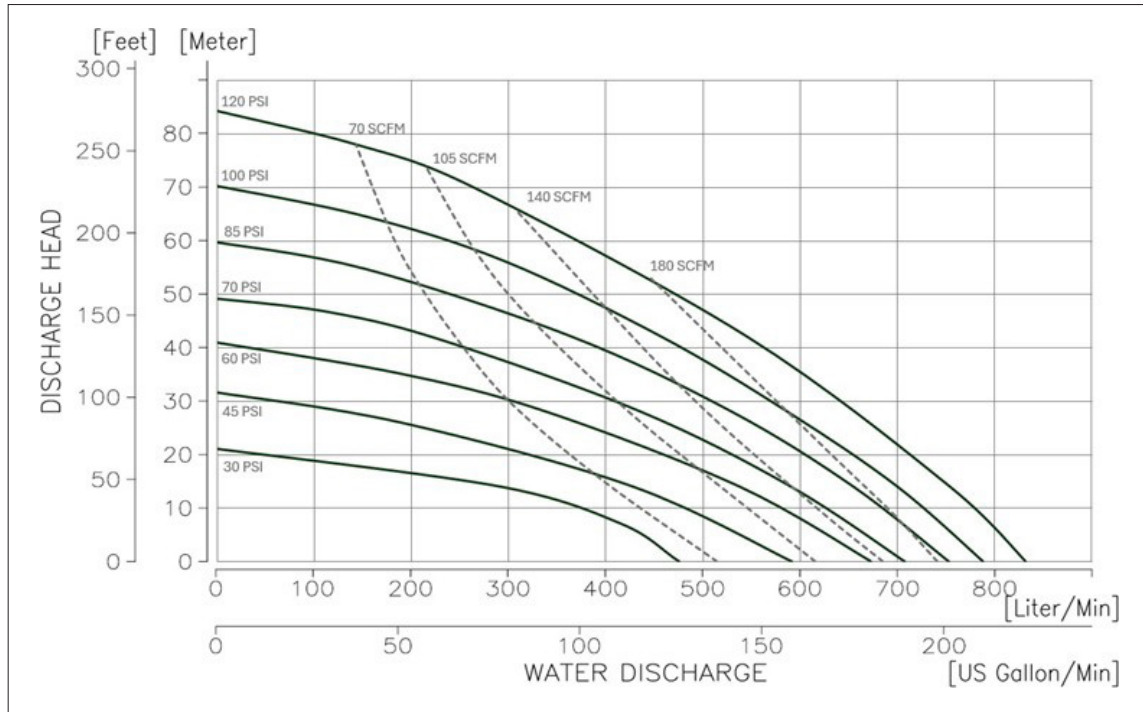
## Model Number Nomenclature



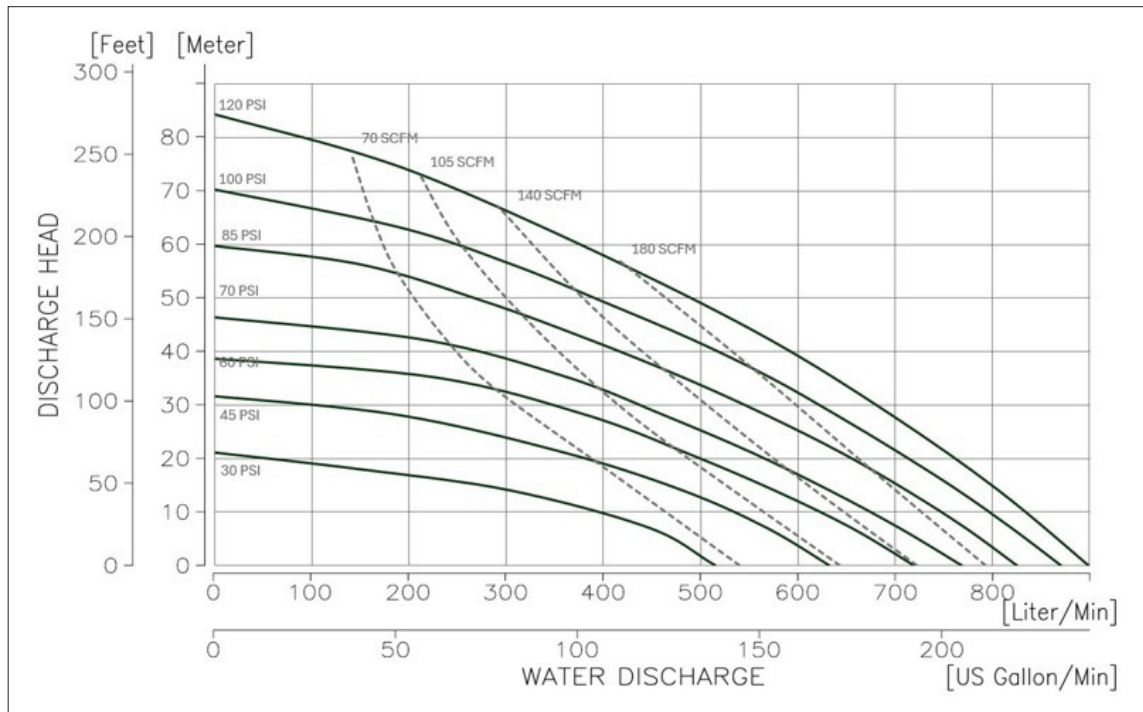
\*Consult factory for additional options.

# Performance Curve

## NDP-500 - Rubber Performance Curve

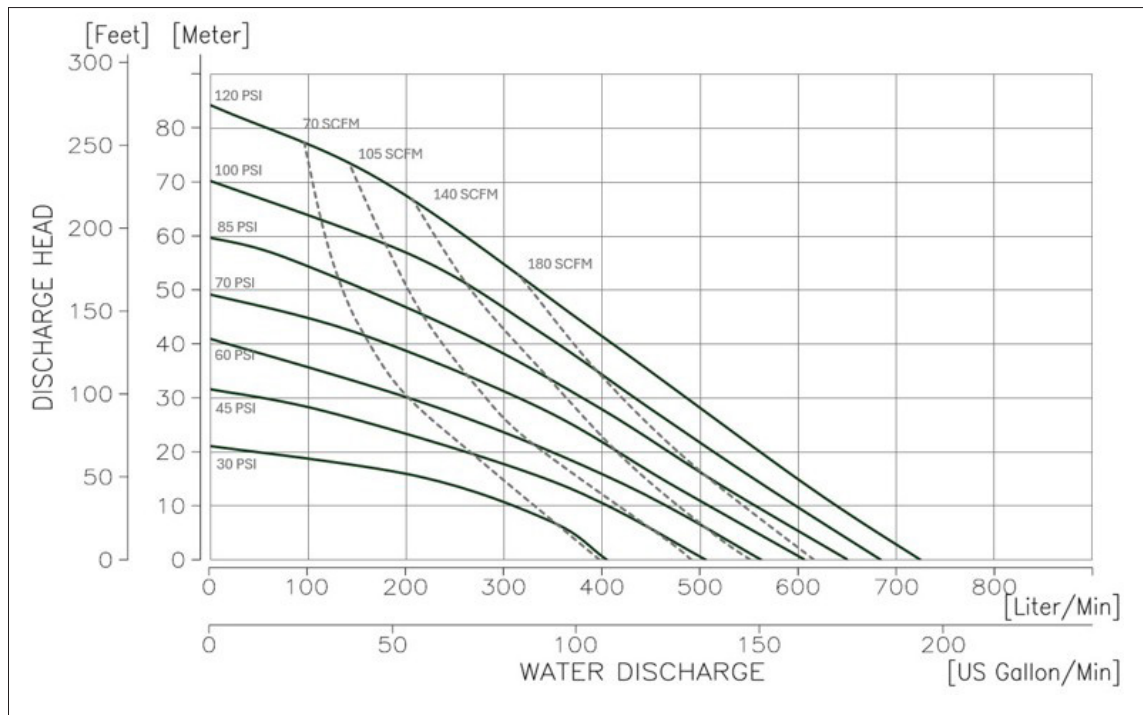


## NDP-500 - Thermoplastic Performance Curve

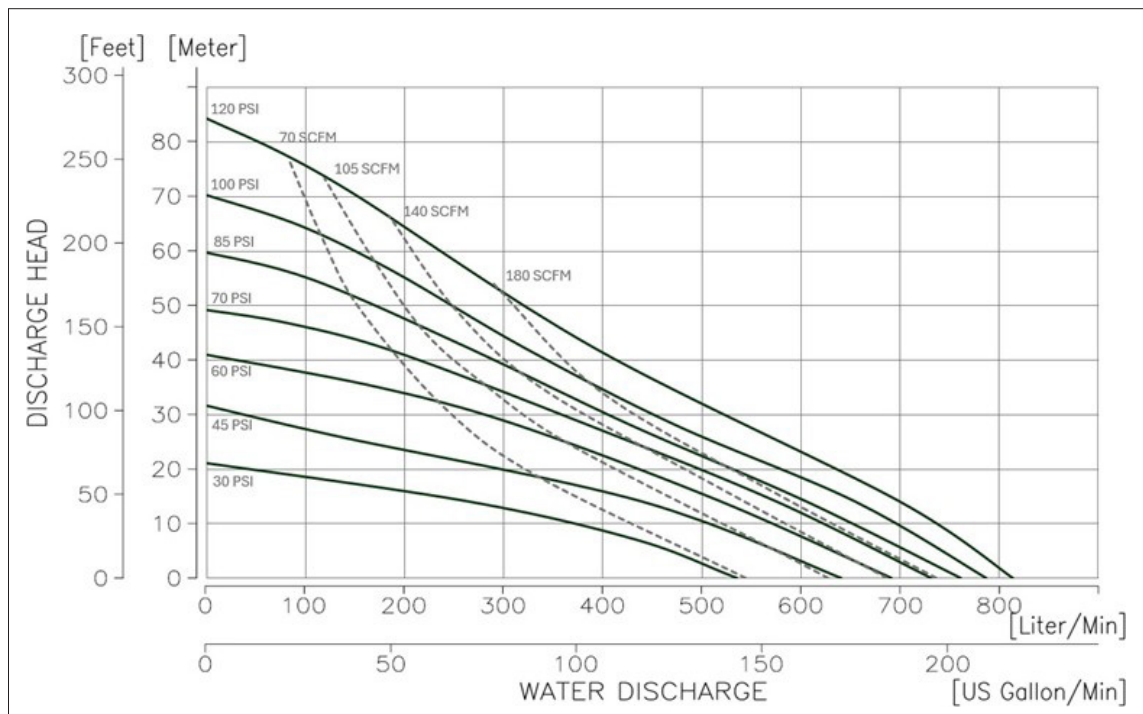


# Performance Curve

NDP-500 - PTFE Performance Curve

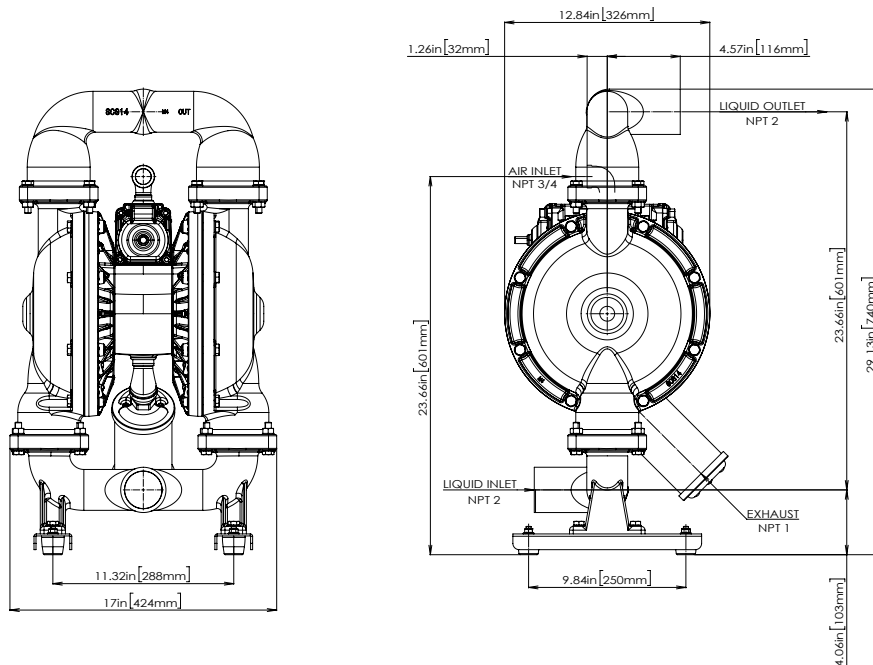


NDP-500 - Ultimate Performance Curve

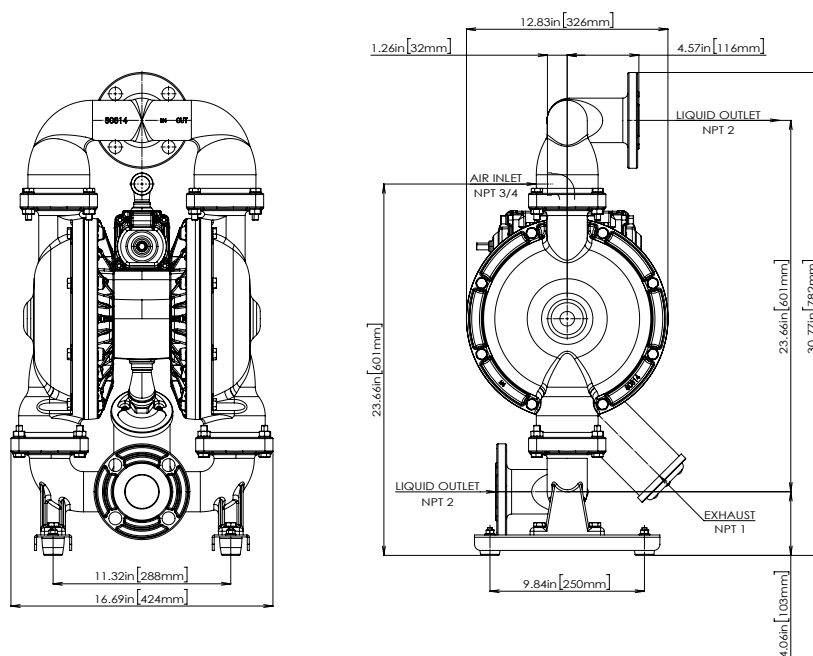


# Dimensions

## NDP-500 Metal - NPT

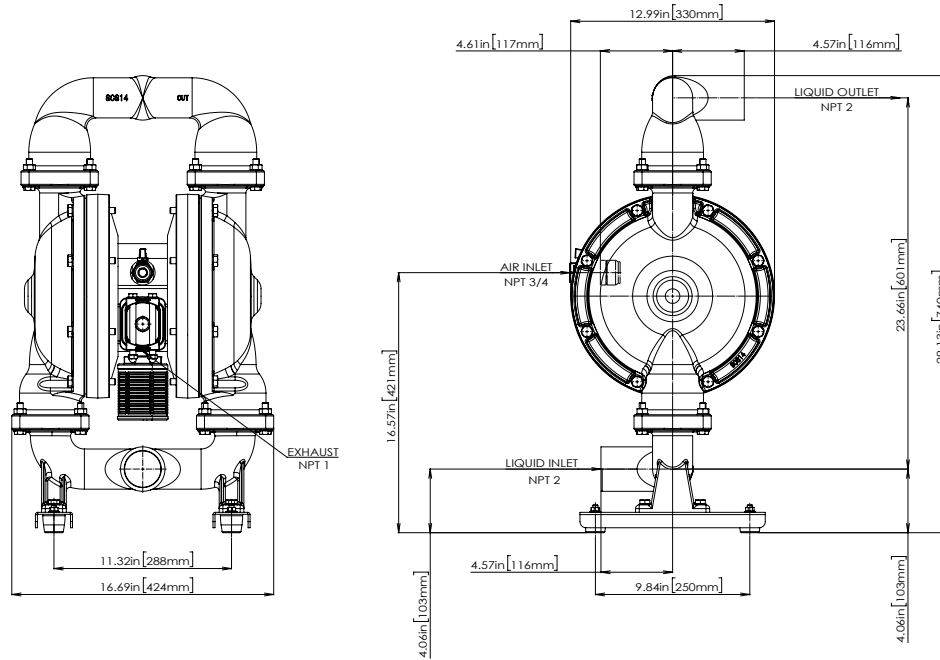


## NDP-500 Metal - FLANGE

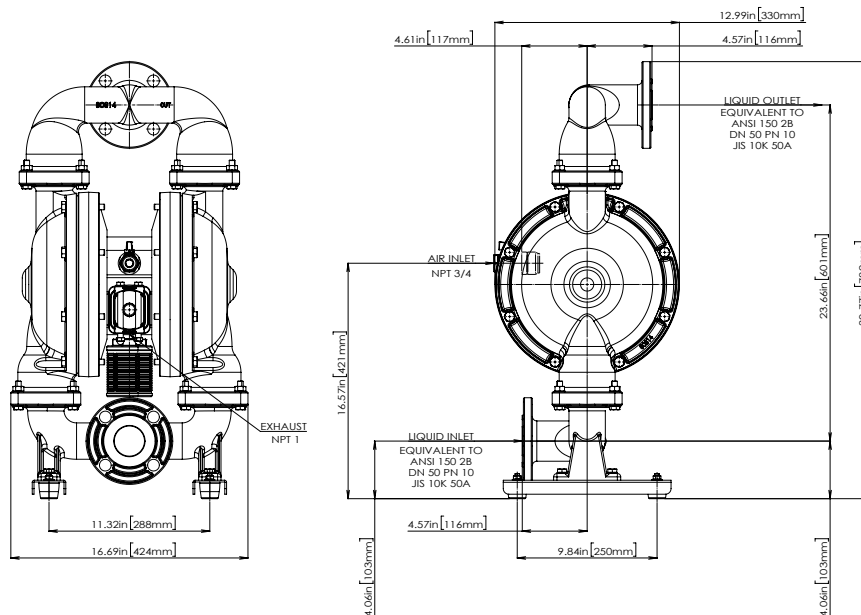


# Installation Diagram

## NDP-500 Metal w/Plastic Center Body (PP) - NPT



## NDP-500 Metal w/Plastic Center Body (PP) - FLANGE



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