

NDP-50 Specifications

Port Dimensions (164 GPM Max.)

Intake & discharge connection:

| | |
|-------------------------------|---------------------------------------------------|
| Polypropylene (PPG) | 2" ANSI B16.5 #150 |
| Kynar® (PVDF) | 2" ANSI B16.5 #150 |
| Aluminum (ADC-12) | 2" ANSI B16.5 #150 (with tapped 2" Female NPT) |
| Stainless Steel (316) | 2" ANSI B16.5 #150 or 2" Female NPT |
| Cast Iron | 2" Female NPT |
| Air inlet (incl. ball valve): | 3/4" Female NPT |
| Air exhaust (incl. silencer): | 1" Female NPT |

Maximum Liquid Temperature*

| Diaphragm Material | Temperature |
|------------------------|---------------|
| Neoprene | 180°F (82°C) |
| Buna N | 180°F (82°C) |
| EPDM | 212°F (100°C) |
| Hytrell® (TPC-ET) | 248°F (120°C) |
| Santoprene® (TPE) | 212°F (100°C) |
| Viton® fluoroelastomer | 248°F (120°C) |
| Teflon® (PTFE) | 212°F (100°C) |

* The maximum liquid temperature for metal and Kynar®-fitted pumps is determined by the elastomer (diaphragm material). Polypropylene pumps have a maximum liquid temperature of 180°F (82°C) regardless of diaphragm material.

Air Supply Pressure (All Models)

20–100 PSI (1.4–7 kfg/cm)

Discharge Volume Per Cycle

Rubber diaphragm: 1.12 gallons (4.25 liters)

PTFE diaphragm: 0.69 gallons (2.61 liters)

Maximum Cycles Per Minute

Rubber diaphragm: 146

PTFE diaphragm: 220

Maximum Size Solid

5/16" (8 mm)

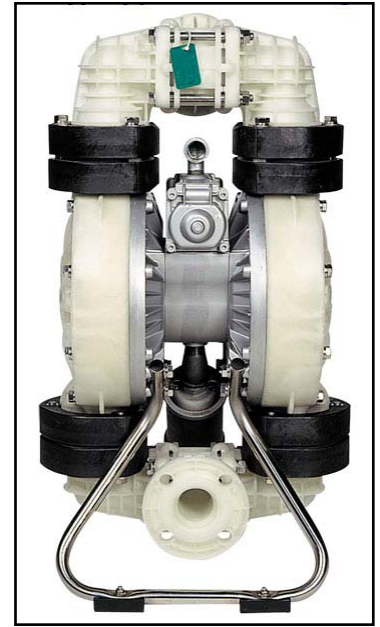
Maximum Dry Suction Lift

Rubber-fitted pump capability: 19-feet

Aluminum Air Motor—Standard

Optional: Epoxy-coated, Teflon®-coated, or Electroless Nickel Plate

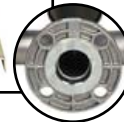
All Polypropylene, Aluminum, Cast Iron, and Stainless Steel Hytrell® fitted pumps include Buna N check balls & o-rings and Santoprene® fitted pumps include EPDM check balls & wetted o-rings. Kynar® (PVDF) pumps fitted with Santoprene®, Hytrell®, or Teflon® include Teflon® check balls & o-rings. Kynar®/EPDM fitted pumps include EPDM check balls & o-rings and Viton® fitted include Viton® balls & o-rings.



Aluminum (top left)
Dimensions: 17.68" W x 30.67" H
Net Wt.: 88 lbs. (39.9 kg)
Shipping Wt.: 99 lbs.

Polypropylene or Kynar® (top right)
Dimensions: 18.63" W x 32.32" H
Net Wt.: 84 lbs. (38.1 kg)
Shipping Wt.: 108 lbs.

Cast Iron or Stainless Steel (left)
Dimensions: 17.72" W x 30.55" H
Net Wt.: Cast Iron—159 lbs. (72.1 kg)
 SS—162 lbs. (73.5 kg)
Shipping Wt.: Cast Iron—168 lbs.
 SS—173 lbs.



Note: ANSI Flange available for Cast Iron and Stainless Steel

Model Number Nomenclature

Series: **NDP-50** Pump

Valve Type: **B** = Ball

Body Material:
P = Polypropylene
V = Kynar® (PVDF)
A = Aluminum
S = Stainless Steel
F = Cast Iron

Diaphragm Material:
C = Neoprene (CR)
N = Buna N (NBR)
E = Nordel™ (EPDM)
S = Santoprene® (TPO)
T = Teflon® (PTFE)
V = Viton® (FKM)
H = Hytrell® (TPE)

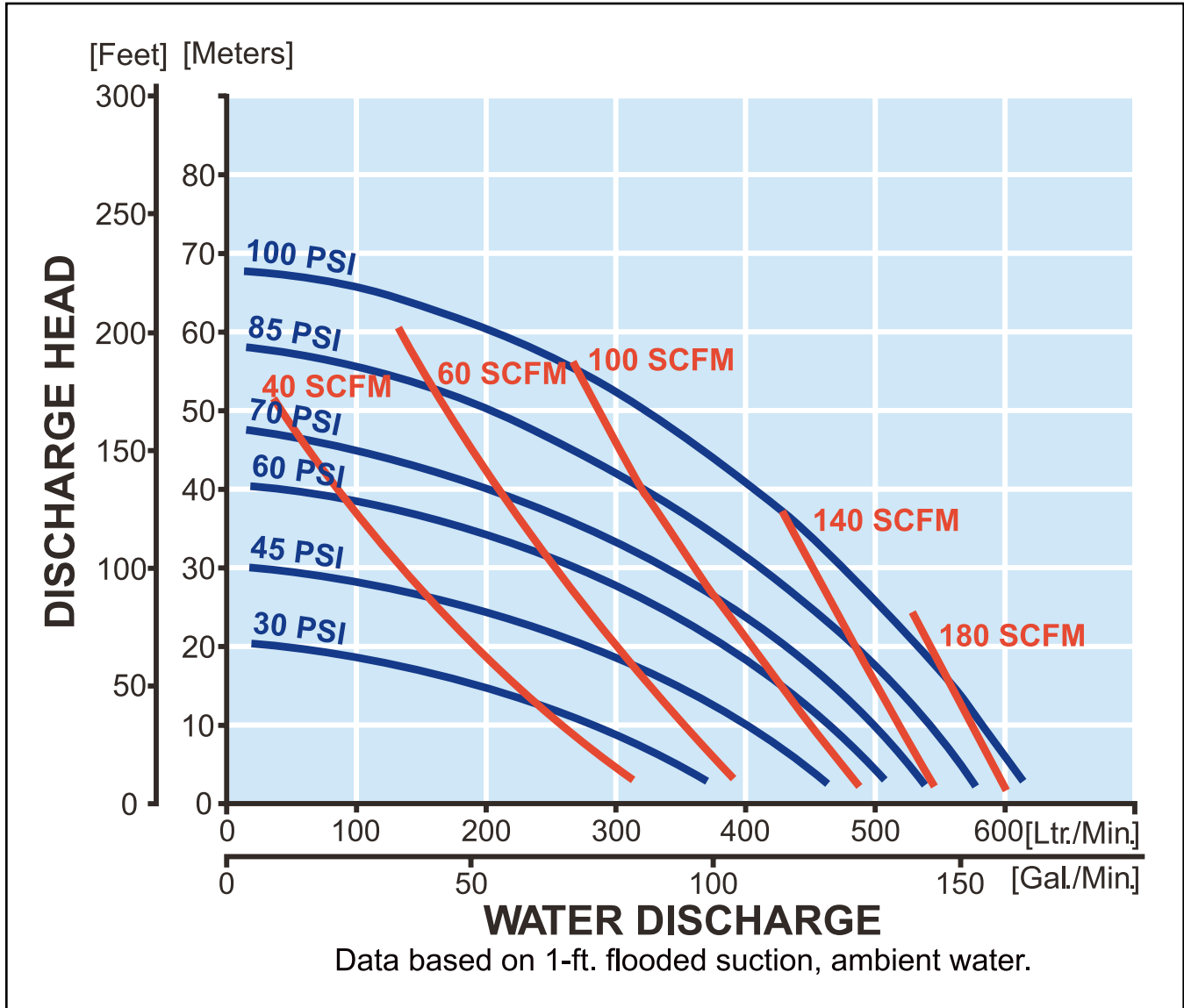
Note: For NPT-fitted Stainless Steel, add "NPT" at end of model number nomenclature.



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NDP-50 Performance Curve — Rubber

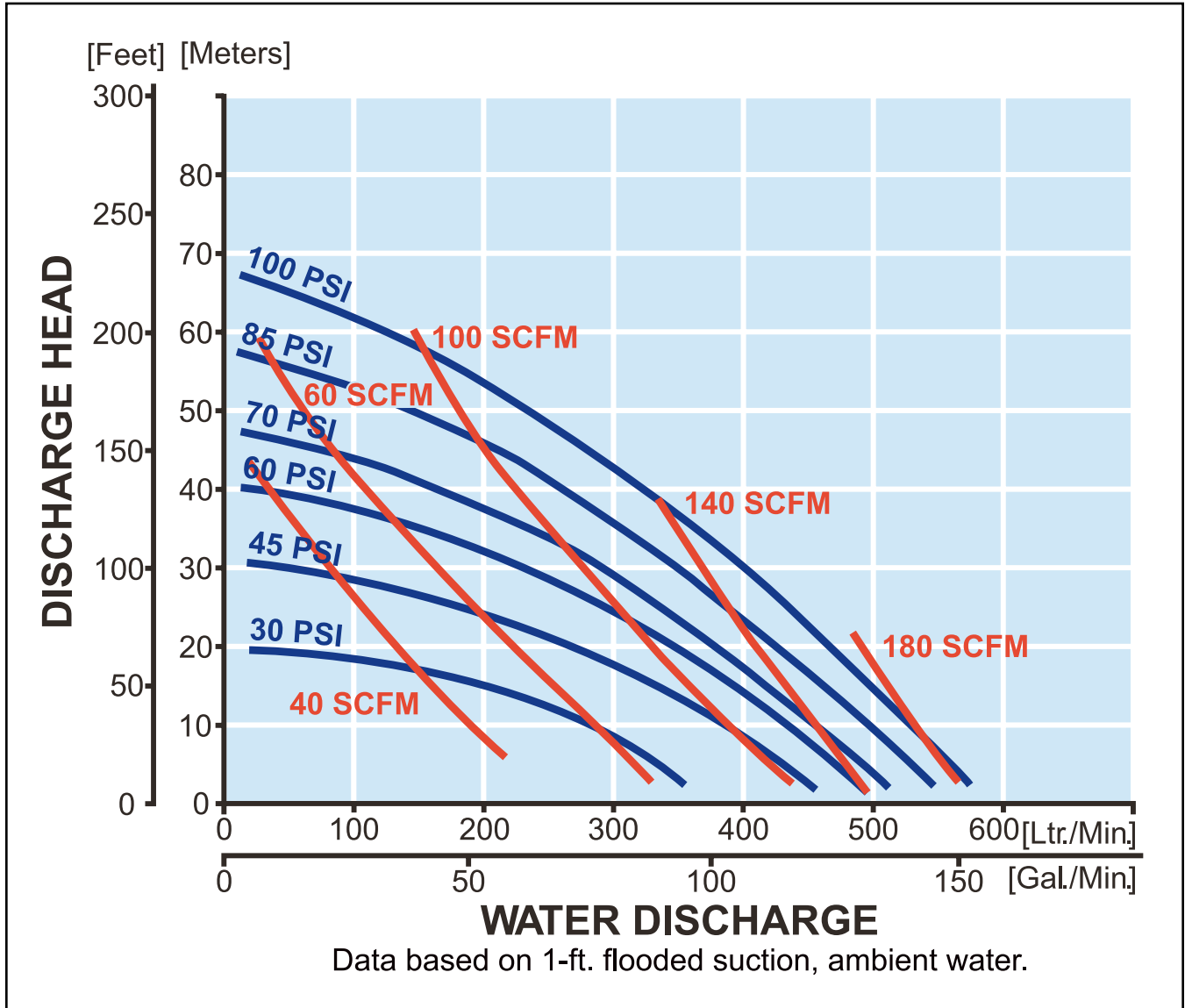
Rubber Diaphragm Performance Curve



To calculate performance for Santoprene® and Hytrel®-fitted pumps, use Rubber Diaphragm Curve.

NDP-50 Performance Curve — PTFE

PTFE Diaphragm Performance Curve



To calculate performance for Santoprene® and Hytrel®-fitted pumps, use Rubber Diaphragm Curve.