

NDP-20 Specifications

Port Dimensions (31.7 GPM Max.)

Intake & discharge connection:

Polypropylene (PPG)	3/4" Female NPT
Aluminum (ADC-12)	3/4" Female NPT
Stainless Steel (316)	3/4" Female NPT
Air inlet (incl. ball valve):	1/4" Female NPT
Air exhaust (incl. silencer):	3/4" Female NPT

ANSI Flange also available — consult Yamada.

Maximum Liquid Temperature*

Diaphragm Material	Temperature
Neoprene	180°F (82°C)
Buna N	180°F (82°C)
EPDM	212°F (100°C)
Hytrel® (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: 0.163 gallons (615 cc)
PTFE diaphragm: 0.143 gallons (539 cc)

Maximum Cycles Per Minute

Rubber diaphragm: 195
PTFE diaphragm: 195

Maximum Size Solid

1/16" (2.0 mm)

Maximum Dry Suction Lift

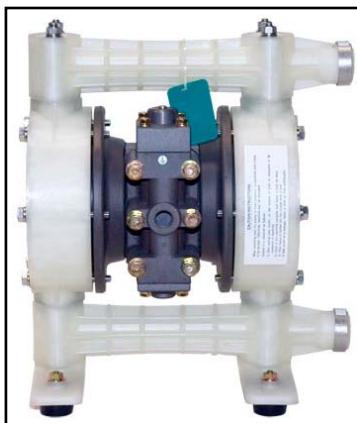
Rubber-fitted pump capability: 18-feet

Air Motors

Aluminum air motors are standard on metal pumps; glass-filled polypropylene air motors are standard on plastic pumps.

Optional air motors: Epoxy-coated, Teflon®-coated, Electroless Nickel Plate, aluminum and glass-filled polypropylene.

Notes: Hytrel®-fitted pumps include Buna N check balls & wetted o-rings. Santoprene®-fitted pumps include EPDM check balls & wetted o-rings.



Aluminum (NPT)

Dimensions:

9.80" W × 12.60" H

Net Wt.: 19.8 lbs. (9.0 kg)

Shipping Wt.: 23 lbs.

Polypropylene

ANSI Flange Dimensions:

12.44" W × 14.75" H

NPT Dimensions:

12.44" W × 14.50" H

Net Wt.: 17.6 lbs. (8.2 kg)

Shipping Wt.: 22.6 lbs.

Stainless Steel (NPT)

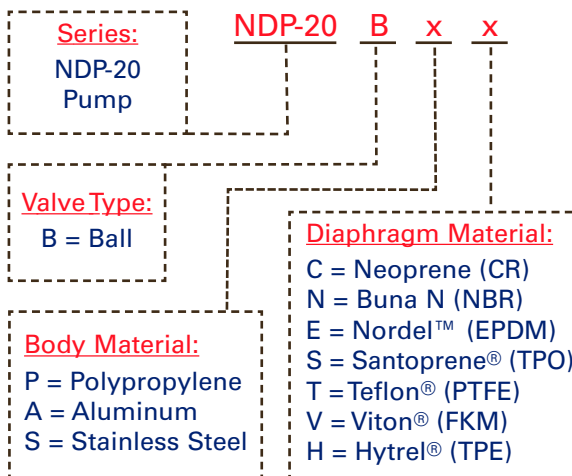
Dimensions:

9.80" W × 12.60" H

Net Wt.: 30.8 lbs. (13.9 kg)

Shipping Wt.: 32 lbs.

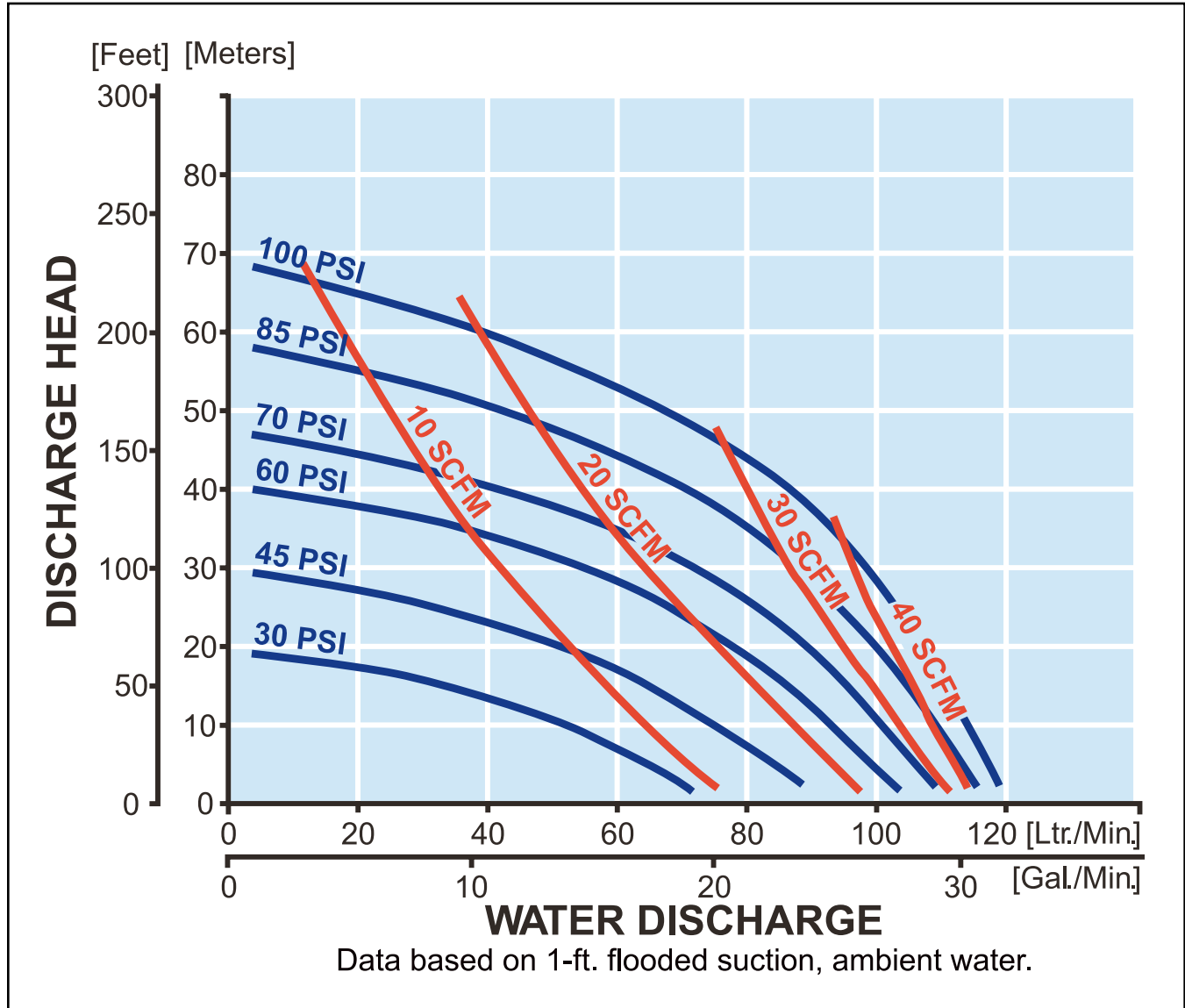
Model Number Nomenclature



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NDP-20 Performance Curve — Rubber

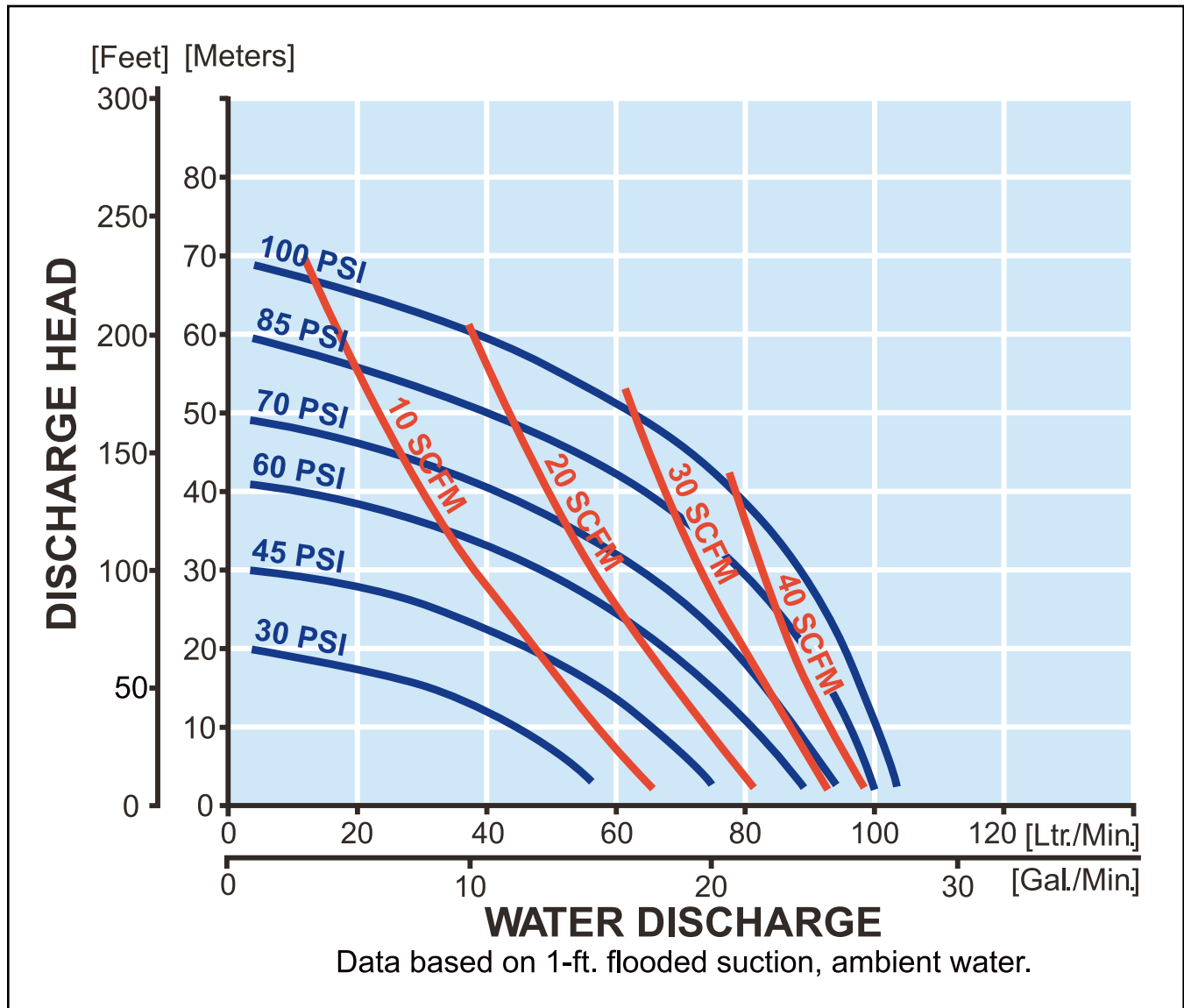
Rubber Diaphragm Performance Curve



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

NDP-20 Performance Curve — PTFE

PTFE Diaphragm Performance Curve



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