

NDP-20 Series

31.7 GPM Maximum Capacity
3/4 Inch Port Size



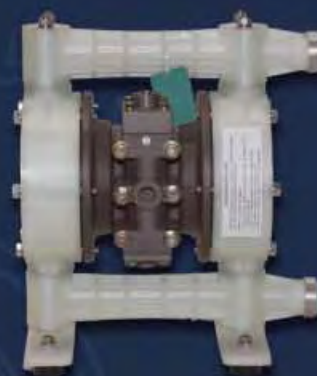
Aluminum

Dimensions: 9.80" W × 12.60" H
Net Wt.: 19.8 lbs. (9.0 kg)
Shipping Wt.: 23 lbs.

Stainless Steel

Dimensions: 9.80" W × 12.60" H
Net Wt.: 30.8 lbs. (13.9 kg)
Shipping Wt.: 32 lbs.

Optional: 1" FNPT
inlet & outlet side
ports. Available
for aluminum
pumps only.



Polypropylene – NPT
Dimensions: 12.44" W × 14.50" H
Net Wt.: 17.6 lbs. (8.2 kg)
Shipping Wt.: 22.6 lbs.



Polypropylene – ANSI Flange
Dimensions: 12.44" W × 14.75" H
Net Wt.: 17.6 lbs. (8.2 kg)
Shipping Wt.: 22.6 lbs.

AutoCAD® drawings are available on CDROM or
at yamadapump.com

NDP-20 Series Specifications

Port Dimensions

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® (TPEE)	248°F (120°C)
Santoprene® (TPO)	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 kgf/cm²)

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

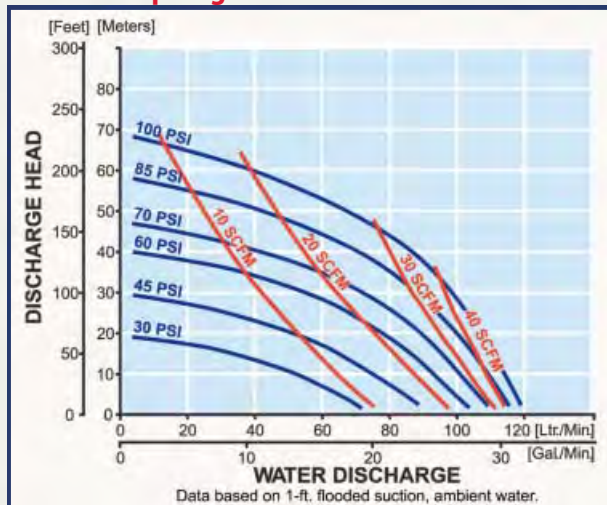
Aluminum air motors are standard on metal pumps; glass-filled polypropylene air motors are standard on plastic pumps.

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

Optional Split Manifold – contact Yamada

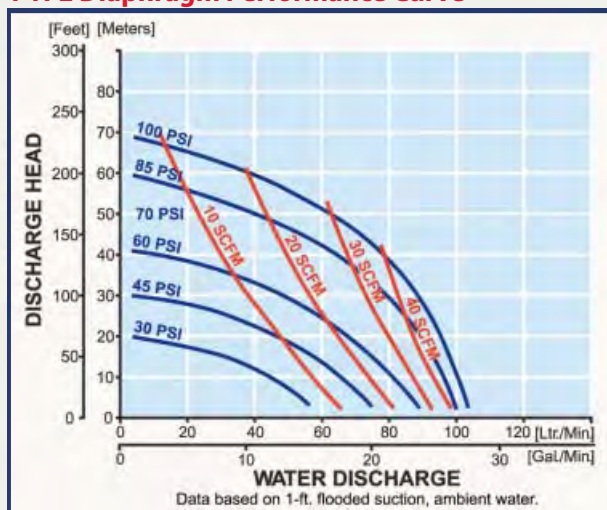
Notes: Hytrel®-fitted pumps include Buna N check balls & wetted o-rings. Santoprene®-fitted pumps include EPDM check balls & wetted o-rings.

Rubber Diaphragm Performance Curve

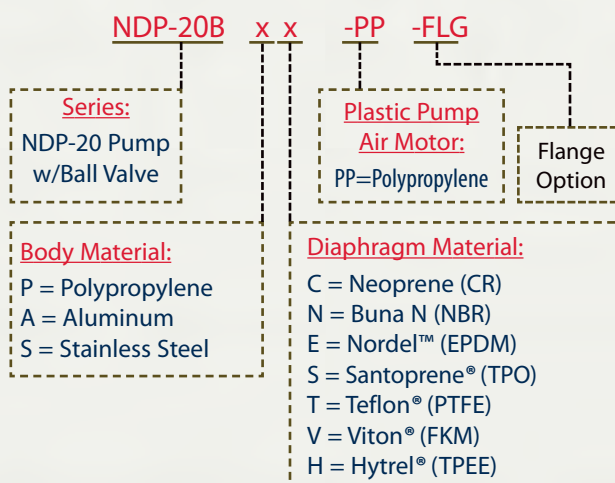


To calculate performance for Santoprene® and Hytrel®-fitted pumps, use Rubber Diaphragm Curve.

PTFE Diaphragm Performance Curve



Model Number Nomenclature



Additional options listed on page 28.