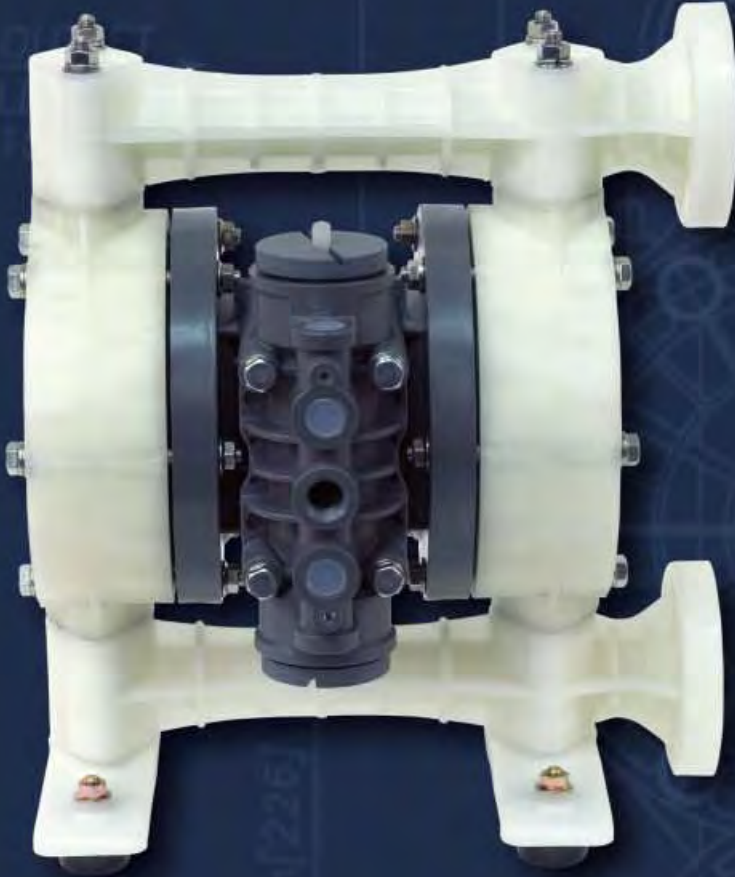


NDP-25 Series

**46.2 GPM Maximum Capacity
1 Inch Port Size**



Polypropylene – ANSI Flange
Dimensions: 14.40" W × 17.40" H
Net Wt.: 29 lbs. (10.9 kg)
Shipping Wt.: 30 lbs.

Polypropylene – NPT
Dimensions:
14.40" W × 16.90" H
Net Wt.: 29 lbs. (10.9 kg)
Shipping Wt.: 30 lbs.



Kynar® (PVDF) – NPT
Dimensions:
14.40" W × 16.90" H
Net Wt.: 29.7 lbs. (13.4 kg)
Shipping Wt.: 33 lbs.



Kynar® (PVDF) – ANSI Flange
Dimensions:
14.40" W × 17.40" H
Net Wt.: 29.7 lbs. (13.4 kg)
Shipping Wt.: 33 lbs.



Aluminum
Dimensions: 11.30" W × 15.08" H
Net Wt.: 27 lbs. (13.0 kg)
Shipping Wt.: 31 lbs.

Stainless Steel
Dimensions: 11.30" W × 15.08" H
Net Wt.: 42 lbs. (19.9 kg)
Shipping Wt.: 46 lbs.

Cast Iron
Dimensions: 11.30" W × 15.08" H
Net Wt.: 43 lbs. (19.9 kg)
Shipping Wt.: 46 lbs.



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

NDP-25 Series Specifications

Port Dimensions

Intake & discharge connection:

Polypropylene (PPG)	1" Female NPT
Kynar® (PVDF)	1" Female NPT
Aluminum (ADC-12)	1" Female NPT
Stainless Steel (316)	1" Female NPT
Cast Iron	1" Female NPT
Air inlet (incl. ball valve):	3/8" 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: 0.22 gallons (833 cc)

PTFE diaphragm: 0.21 gallons (787 cc)

Maximum Cycles Per Minute

Rubber diaphragm: 210

PTFE diaphragm: 210

Maximum Size Solid

3/16" (4.8 mm)

Maximum Dry Suction Lift

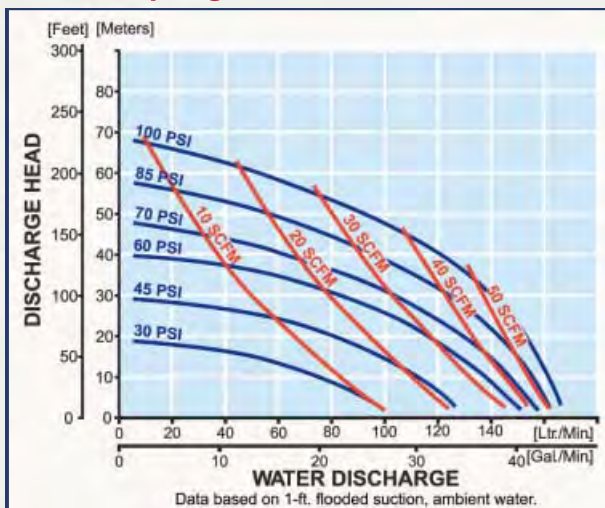
Rubber-fitted pump capability: 18-feet

Air Motors: Aluminum air motors are standard on metal pumps; glass-filled polypropylene air motors are standard on plastic and Kynar® pumps. Optional air motors on page 28.

Optional Split Manifold – contact Yamada

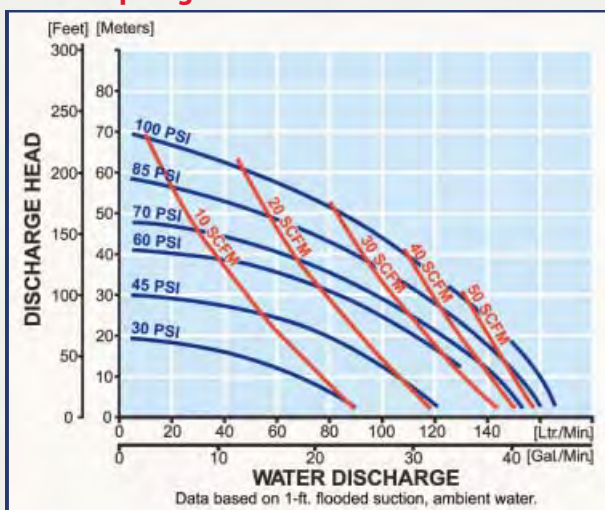
All Polypropylene, Aluminum, Cast Iron, and SS Hytrel® fitted pumps include Buna N check balls & o-rings and Santoprene® fitted pumps include EPDM check balls & wetted o-rings. Kynar® (PVDF) pumps fitted with Santoprene®, Hytrel®, or Teflon® include Teflon® check balls & o-rings. Kynar®/EPDM fitted pumps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

Rubber Diaphragm Performance Curve

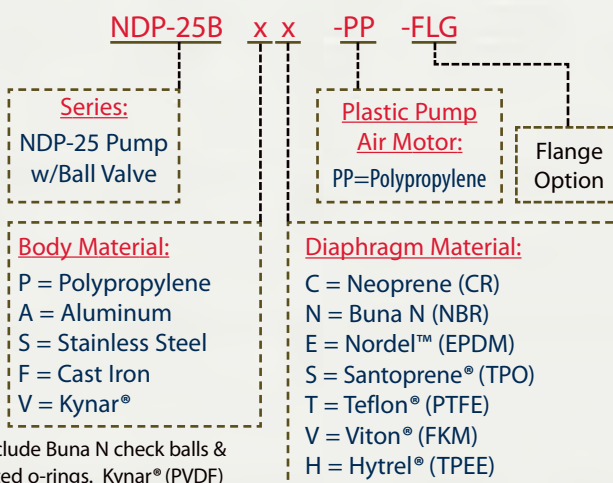


To calculate performance for Santoprene® and Hytrel®-fitted pumps, use Rubber Diaphragm Curve.

PTFE Diaphragm Performance Curve



Model Number Nomenclature



Additional options listed on page 28.