

NDP-40 Series

Maximum Fluid Discharge of
400L/min Port Size 1-1/2



Kynar® (PVDF)

Dimensions: 398mm W x 749mm H
Net Wt.: 32.0 kg
Shipping Wt.: 36.0 kg

AutoCAD® drawings are available
at yamadacorp.co.jp/global

Polypropylene
Dimensions:
405mm W x 752mm H
Net Wt.: 27.0 kg
Shipping Wt.: 36.0 kg



Aluminum
Dimensions:
412mm W x 710mm H
Net Wt.: 29.0 kg
Shipping Wt.: 38.0 kg



Stainless Steel
Dimensions:
411mm W x 705mm H
Net Wt.: 40.0 kg
Shipping Wt.: 49.0 kg

Cast Iron-Rc
Dimensions:
411mm W x 704mm H
Net Wt.: 47.0 kg
Shipping Wt.: 56.0 kg



JIS/DIN Flange on Stainless
Steel pumps.



NDP-40 Series Specifications

Port Dimensions

Intake & discharge connection:

Polypropylene (PPG)	Flange JIS 10K40A/DN40PN10
Kynar® (PVDF)	Flange JIS 10K40A/DN40PN10
Aluminum (ADC12)	Flange JIS 10K40A/DN40PN10
Stainless Steel (SUS14)	Flange JIS 10K40A/DN40PN10

Cast Iron	Rc1-1/2
Air inlet (incl. ball valve):	Rc1/2
Air exhaust (incl. silencer):	Rc1

Maximum Liquid Temperature*

Diaphragm Material	Temperature
Neoprene (CR)	70°C
Buna N (NBR)	70°C
EPDM	80°C
Hytrel® (TPEE)	100°C
Santoprene® (TPO)	100°C
Viton® fluoroelastomer (FKM)	100°C
Teflon® (PTFE)	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 60°C regardless of diaphragm material.

Air Supply Pressure (All Models)

0.2–0.7MPa

Discharge Volume Per Cycle

Rubber diaphragm: 2800 mL

PTFE diaphragm: 1400 mL

Maximum Cycles Per Minute

Rubber diaphragm: 148

PTFE diaphragm: 270

Maximum Size Solid

9/32" (7 mm)

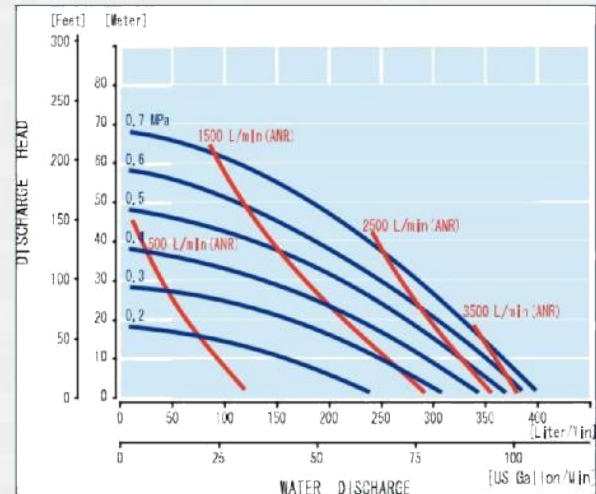
Maximum Dry Suction Lift

Rubber-fitted pump capability: 5.5M

Aluminum Air Motor – Standard

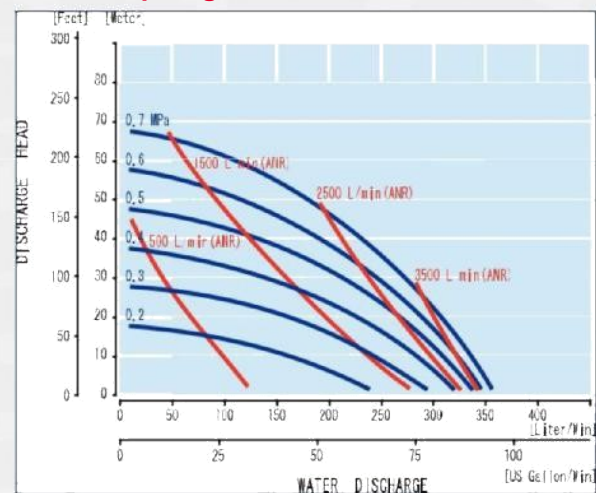
Optional: Epoxy-coated, Teflon®-coated, or Electroless Nickel Plate

Rubber Diaphragm Performance Curve



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

PTFE Diaphragm Performance Curve



Model Number Nomenclature

