

**F-Series  
Ultra-High Purity  
Pumps**

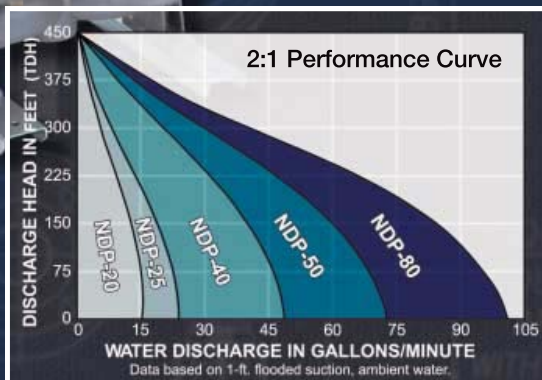


*Yamada has  
the largest installed  
base of high-purity  
pumps in the world!*

**Model NDP-50 HP**



**Model NDP-25 HP**



## F-Series

Extensively field proven, Yamada® F-Series clean room manufactured pumps are specifically designed for the safe and efficient transfer of **ultra high-purity process chemistries**. They provide maximum corrosion resistance, ultra high-purity levels and low particle generation.

Pumps include 100% machined virgin PTFE diaphragms, liquid chambers and manifolds.

F-Series pumps are available in six sizes

Fluid connections	Flaretek®, ANSI Flange, or FNPT
Flow rate	1 to 35 GPM
Air control	internal shuttle valve or external timer-based control
Air pressure range	20 to 100 PSI
Temperatures up to	212°F (100°C)

For additional information, please request the *Yamada High-Purity PTFE Pumps* catalog or visit [yamadapump.com](http://yamadapump.com).

## High Pressure 2:1

**2:1 Ratio High Pressure Pumps** are designed for applications when a maximum 100 PSI operating pressure is insufficient to overcome system requirements.

The flow rate is roughly half of the equivalent size pump output, though a maximum discharge pressure of 200 PSI can be achieved with only 100 PSI air inlet pressure supplied.

The 2:1 discharge ratio is achieved by applying air pressure to the surface area of both diaphragms, doubling the discharge output.

Port sizes: 3/4"–3"	Capacity: 1 to 100 GPM
Construction:	Stainless Steel, Cast Iron, or Aluminum wetted materials
Diaphragm:	Choice of six elastomers
Controls:	No elaborate bypass, relief valves, or complicated controls required. Excellent pressure retention.