

**ARO**<sup>®</sup>**PUMP SUPPLY**  
INCORPORATED**EVO SERIES**<sup>™</sup>

THE EVOLUTION IN PROCESS PUMPS

*Welcome to the next evolution!***EVO Series**<sup>™</sup> - *The Pump with one of the Best Return on Investment in the market***High efficiency with exceptional energy savings** compared to other positive displacements pumps**Very Low pulsation** due to the unique three chamber design, no need for pulsation dampener**True Deadhead** thanks to closed loop control that automatically stops pump's spinning and hold pressure**Leak Free** due to secondary containment for fluid and oil, and automatic leak detection**Easy Installation****Easy Serviceability** - maintenance in place, even in a small space**IOT ready** - Full integration through PLC or HMI devices**Controllability** - more controllable than any other positive displacement pump in its range**All in one pump** - no need to buy extra accessories**High performance solution**

- Pump designed for long life even during high load conditions
- High resistant diaphragms
- Low maintenance cost

**Hazardous duty certifications** attending the most exigent worldwide safety standards covering environments with presence of hazardous liquids and gases

UV Ink transfer application using a stainless steel with PTFE ball checks EVO pump.  
PN: EP20-SFSTT-CSV-ACA

**Target Markets**

Chemical Processing



Mining



Waste Water Treatment



General Manufacturing

**EVO Series**<sup>™</sup> Family

1", 2"  
Stainless Steel  
Shown with VFD Controller



1", 2"  
Aluminum and Cast Iron



1", 2"  
Polypropylene



1", 2"  
Hazardous Duty (Metallic versions)

**Digital enabled solution**

Get easy and fast access to pump's library and spare parts through a simple QR-code scan to access the ARO<sup>®</sup> Service Point.



Demo scan



To learn more scan or visit

AROZONE.COM

**Sizes:** 1" and 2" sizes, available in ordinary and hazardous duty. Bare pump versions available.

- 1" size equipped with 2.2kw gear motor and 3.0kw VFD that provides versatility for small batch and dosing applications
- 2" size equipped with 5.5kw gear motor and 7.5kw VFD for large fluid transferring applications

**Metallic options:** cast iron, aluminum and stainless steel for applications that require durability and tensile strengths

**Non-metallic options:** 2" polypropylene standard version, for very high corrosion resistance especially in caustic services, widely used in chemical industry

**Voltage options:** 3 voltage options available to cover global electricity voltage and frequency standards:

- 3 phase dual frequency 50/60Hz 200-240V, 380-500V and 525-600V

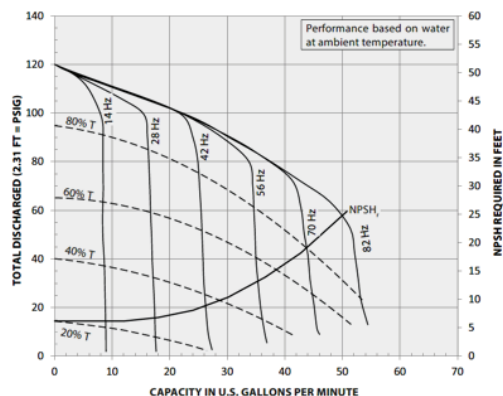


# Performance Curves

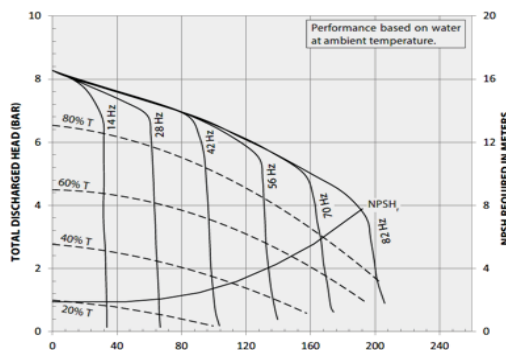
Please contact our sales representatives for bare pump technical details.



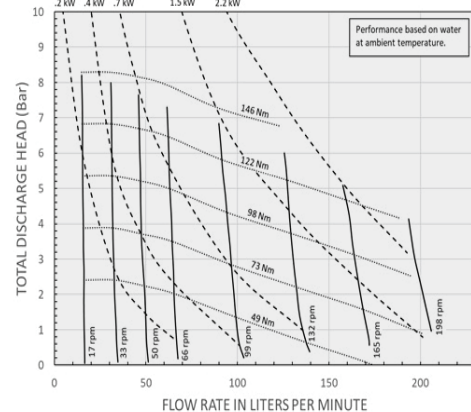
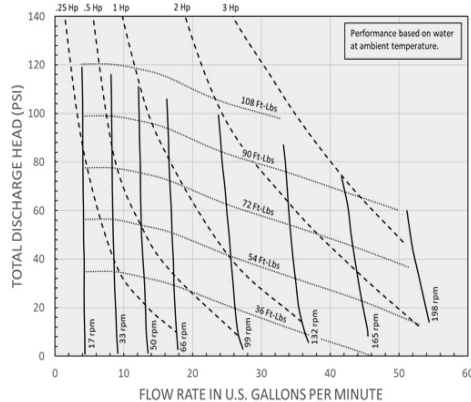
## 1" Metallic and Non-Metallic



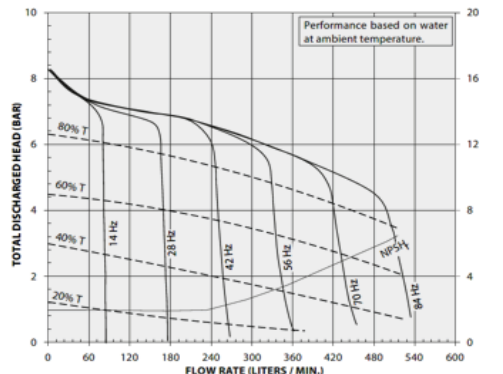
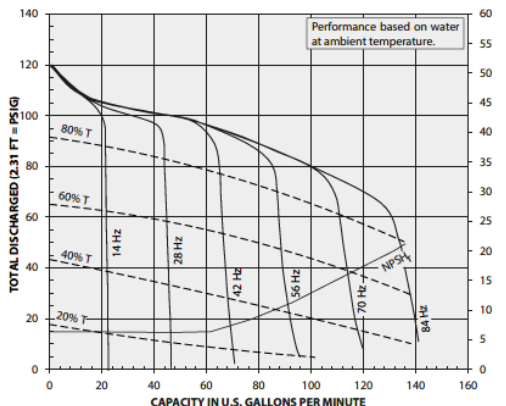
Drive Controls:  
 - Motor Frequency (Main Menu)  
 - Torque Limit (Menu 4 - 16)



## 1" Metallic and Non-Metallic Bare Pump

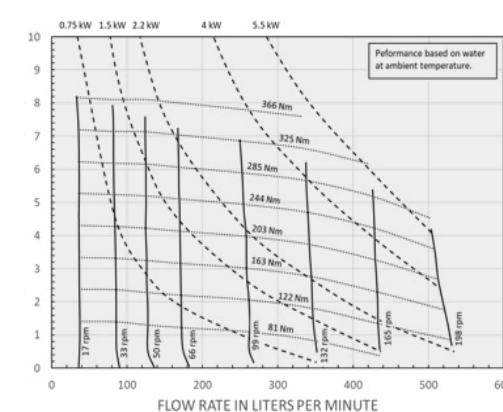
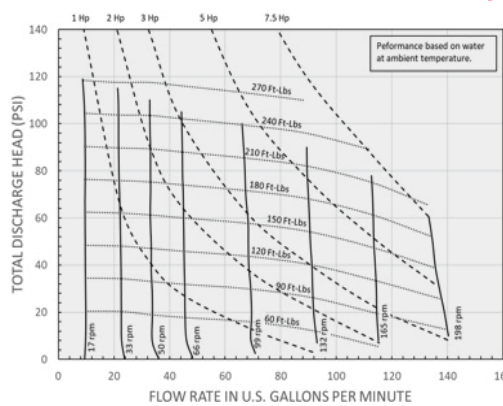


## 2" Metallic and Non-Metallic



Drive Controls:  
 - Motor Frequency (Main Menu)  
 - Torque Limit (Menu 4 - 16)

## 2" Metallic and Non-Metallic Bare Pump



There are two primary VFD settings needed to navigate the pump operating map. The commanded frequency will control the pump speed (flow), and the motor torque limit (parameter 416) will limit the maximum torque that the motor output which will in turn limit the pump pressure. The pump will run at the commanded speed until the backpressure in the system exceeds the motor torque limit shown by the horizontal dotted lines. When this happens, the pump will begin to de-rate its speed to maintain a constant torque output. This will continue until there is zero flow in the system, but full pressure. When the pressure downstream is reduced, the pump will speed up until the speed reaches its commanded frequency. To limit the pressure in the system, the torque limit can be set less than 100%. When backpressure builds, the pump will begin to de-rate its speed at a lower pressure where it intersects its respective curve for that given torque limit.