

# PulsaPro® 680

## HYDRAULIC DIAPHRAGM METERING PUMP

PulsaPro® 680 is a positive displacement, leak-free, hydraulically balanced diaphragm metering pump, engineered for precise dosing and long-term dependability, delivering superior value. It offers a diverse range of fluid handling solutions with unique wet end designs consisting of HYDRAtube®, HYDRAcone®, or flat diaphragm types, each available in a variety of wet-end materials. PP680 features immediate visual intelligence about pump and system performance. It complies with the API 675 standard for use in oil & gas, petrochemical, chemical processing, power generation, and water & wastewater treatment industries. Certified by WQA as “NSF/ANSI 61” compliant for use in drinking water treatment processes.



### Common Applications

- corrosion inhibitors
- anti-scalants
- odor control
- Disinfection with Sodium Hypochlorite
- pH control with lime slurries



### Flow

up to 38.2 gph (144.6 lph)



### Pressure

up to 3,100 psi (213.7 bar)



### Fluid Temperature

up to 250°F (121°C)



API 675, CE,  
ATEX, IECEx



“NSF/ANSI/CAN 61”  
“NSF/ANSI/372”



### Standard materials of construction

- Wet end: 316LSS, GF-PTFE, PVC
- Diaphragm: PTFE, Hypalon\* or Viton\*
- Valve ball: 316LSS, Alumina Ceramic
- Valve seat: 316LSS, PVC, GF-PTFE
- Valve gaskets: PTFE, Hypalon\* or Viton\*
- Pump body: Cast Iron

### Connection types

- NPT
- Raised-face flange

### Controls

- Manual stroke length control
- Electronic stroke length control

### Leak detection

- PULSAlarm®
  - Pressure based
  - IP66, NEMA Type 4X, NEMA TYPE 7

### Automatic degassing

- Hypo Valve
  - Automatic purging of trapped gasses
  - Integrated Design
  - Use with Sodium Hypochlorite

### Multiplex configurations

- up to 17 pumps

### HYDRAtube & HYDRAcone design

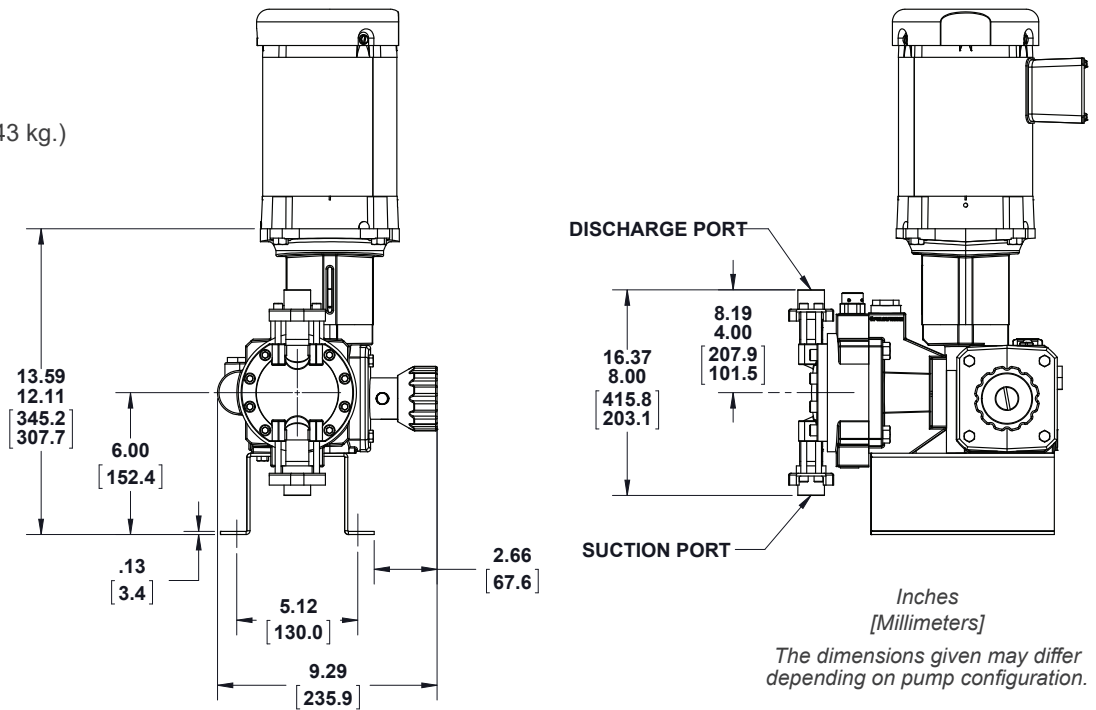
- The solution for shear sensitive and high viscosity fluids
- Straight flow-through path
- Optional slurry valves
- Elastomeric HYDRAtube & HYDRAcone
- Robust Ductile Iron housing - HYDRAtube only
- Double diaphragm safety - HYDRAtube only
- ChemAlarm® leak detection - HYDRAtube only

\* HYDRAtube only

**PULSAFEEDER®**  
ENGINEERED PRODUCTS

## DIMENSIONS

Approximate shipping weight: 95 lb. (43 kg.)



## SPECIFICATIONS

<b>Materials</b>	316LSS, PVC, GF-PTFE	<b>Accuracy</b>	±0.5%	
<b>Diaphragm type</b>	Flat, Tube, Cone	<b>Temperature limitations</b>	Min	Max
<b>Motor power</b>	up to 0.33 hp (0.25 kW)	<b>Standard Fluid temp. range</b>	-10°F (-23°C)	250°F (121°C)
<b>Motor frame</b>	NEMA 56C, 143/5TC IEC 71B14, 80B14	<b>Ambient temp. limit with ATEX</b>	-4°F (-20°C)	174°F (79°C)
<b>Standards</b>	API 675, CE, ATEX IECEx, "NSF/ANSI 61"			

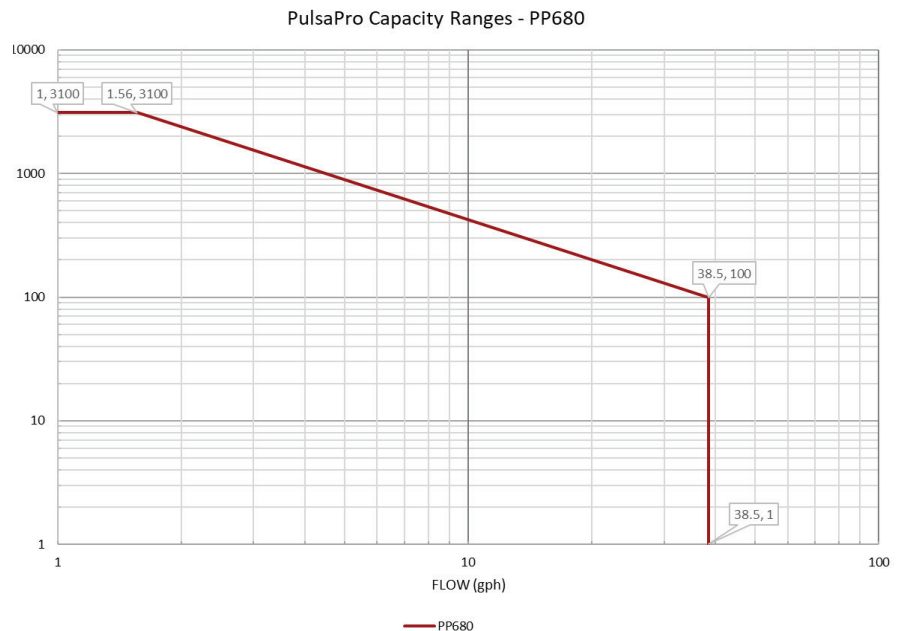
## FEATURES & BENEFITS

- Unique 3 valve hydraulic management system makes the PulsaPro pump resilient to system upset
- **Hydraulic performance valve** maintains optimum diaphragm position and allows low NPIP of 5 psi (0.31 bar)
- **Push-to-prime valve** allows quick manual priming of the hydraulic system in addition to automatic air bleeding
- Externally adjustable **hydraulic by-pass valve** protects against over-pressurization
- Four bolt tie bar design provides ultimate resistance to piping moments and forces
- Three component check valves for controlled fluid displacement, assuring reliable hydraulic operation
- Manual stroke length adjustment with resolution of 0.1% for set point accuracy and optional electronic stroke length adjustment with 5x improved resolution

## CUSTOM ENGINEERING

- Compatible materials: Alloy C, Alloy 20, Monel®, DuplexSS, Titanium, PVDF
- Minimum temperature to -10°F (-23°C) and with ATEX to -4°F (-20°C)
- Degass Valve
- Chemical feed systems
- Application consulting

## FLOW & PRESSURE ENVELOPE



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*Pulsafeeder is an ISO 9001 Certified Company.*