

This rugged, leak-free hydraulic diaphragm style metering pump is designed for precise metering and long-term dependability. It incorporates a deceptively simple stroke length adjustment which Pulsafeeder has refined over the years of successful performance in the field

### Key Features

- A worm drive and eccentric translate the rotary motion of a worm shaft into reciprocating linear motion by a plunger.
- The plunger displacement (and pump flow rate) is manually controlled by a 0-100% micrometer adjustment mechanism accurate to  $\pm 1\%$ .
- A no-drift stroke lock mechanism maintains the accuracy of the stroke setting.
- Product contamination and leakage are eliminated by the hydraulically actuated balanced diaphragm system.
- Long-term durability is achieved through the use of high quality materials in the drive train. The worm gear is made from Dynalloy<sup>®</sup> bronze.
- The pump mechanism functions under flooded lubrication within a large sealed reservoir for virtually "wear-free" operation.

### Control Options



#### Electric Stroke Length Control

- A fully electric PULSAmatic<sup>®</sup> stroke length controller is available for operation with electric instrument signals.



#### Pneumatic Stroke Length

- A fully pneumatic operator design for use with a typical 3 to 15 psi (0.2 to 1.0 kg/cm<sup>2</sup>) instrument air signal to produce 0 to 100% flow.



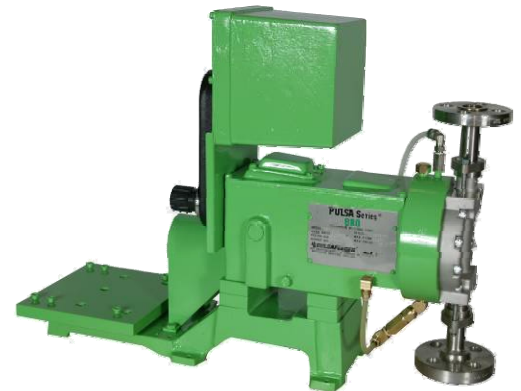
#### MPC Vector

- The MPC VECTOR is an advanced pump controller that is physically separated from the pump's enclosure. Its purpose is to precisely adjust output flow of a process media by means of pump motor speed control, and is designed for a wide variety of control applications.

Leak Detection is available in either Pulsalarm<sup>®</sup> or ChemAlarm<sup>®</sup>

### Operating Benefits

- Flows up to 95 GPH (360 LPH), and pressures up to 1800 psi (124 bar).
- Drive components carry a two-year warranty.
- Metering accuracy with a  $\pm 1\%$  over a 10:1 flow range.



### Aftermarket & Accessory Offerings

- KOPkit<sup>®</sup>
- Cal Columns
- Strainer
- Pressure Relief Valves
- Back Pressure Valves
- Pulsation Dampeners
- Gauges



# PULSA Series® 880

## Specifications and Model Selection

RATED FLOW, AT RATED PRESSURE GPH (LPH) <sup>1</sup>				RATED PRESSURE PSI (Bar)	Diaphragm <sup>(2)</sup> Style	PISTON SIZE (inches)	Connection INLET/OUTLET FNPT (inches)
50 Hz Flow		60 Hz Flow					
48 SPM	187 SPM	58 SPM	175 SPM				
1 (3.9)	4.4 (16.7)	1.2 (4.6)	4.1 (15.6)	1800 (124)	T	0.5	½
1.9 (7.3)	7.6 (29)	2.3 (8.7)	7.1 (27)	1150 (79)	T	0.625	½
4 (15)	15.5 (59)	4.8 (18)	14.4 (55)	650 (45)	T	0.875	½
6.7 (25)	27 (101)	8 (30)	25 (95)	360 (25)	TH	1.125	½
8.3 (31.5)	33 (126)	10 (38)	31 (117)	290 (20)	TH	1.25	½
12.5 (4.7)	49 (187)	15 (57)	46 (174)	200 (13.8)	TH	1.5	½
17.5 (66)	69 (260)	21 (79)	64 (242)	150 (10.3)	TH	1.75	1
26(98)	102 (385)	31 (117)	95 (360)	100 (6.9)	TH	2.125	1

1. Ratings subject to change

2. M = Metal; T = Teflon; H = HydraTube

### Engineering Data

**Materials:** Standard wet end materials available are 316SS, 20SS and glass-filled PTFE. Standard valve materials available are 316SS, 20SS, Alloy C and alumina ceramic. Valve gaskets are TFE. Custom materials quoted on request. HYDRATUBE® housing is "ductile iron"- a high grade, high strength casting. Intermediate fluid in HYDRATUBE® models is a 33% ethylene glycol-water solution. Alternate fluids are available.

**Ratings:** General fluid temperature limits, 10°F to 180°F (-12°C to 82°C). Glass-filled PTFE, 10°F to 150°F (-12°C to 66°C). Elastomer diaphragm models generally limited from 40°F to 180°F (4°C to 82°C).

All glass-filled PTFE wet ends limited to 150psig (11kg/cm<sup>2</sup>) rated pressure and rated flow is reduced 5%.

**Valves:** Single, ball type, inlet and outlet check valves are standard. Double check valves are optional.

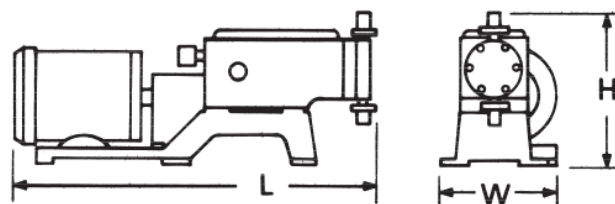
**Motors:** ½ hp, 1750 RPM foot mounted motors are standard. Double check valves are optional.

### Custom Engineered Designs

- Remote Head
- High Temperature Remote Head
- Anti-Siphon Valve
- Degassing Valve

### Dimensions

PULSA 880	L	H	W	Approx. Shipping Weight
Inches	26	12.3	7.5	72 lbs.
Centimeters	66	31.2	19	32.6 kg.



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PLS882 – 8/2010