

General Description

The Model 1210 is a motor driven, positive displacement chemical metering pump. It is designed to feed a broad range of chemical solutions and light slurries safely and efficiently.

This mechanically actuated diaphragm pump is available in simplex or duplex models with independently adjustable chemical resistant feeding heads.

Performance

The 1210 Series pump incorporates simple and efficient low maintenance technology. The simplex version has a capacity range of 0.3 to 24 gph and pressure range up to 200 psig. The heavy-duty ball bearing cam minimizes wear and prolongs pump life. The speed reducer is totally immersed in oil for full protection and minimal wear.

Materials of Construction

Chemical resistant heads of PVC, clear Tyril® and 316 Stainless Steel combined with a Hypalon® or Viton® diaphragm provide material selections to meet the most demanding requirements of chemical metering. Uniquely designed poppet check valves allow for more reliable seating and increased accuracy compared to the standard ball check valve.

Features

- A separate manual stroke length control for each individual pumping head allows in-motion capacity adjustment of 0-100%.
- Transparent Tyril® head permits visual flow monitoring.
Self-priming allows pumping from original chemical container.
- Tubing connections include foot valves and injection nozzles.
- Speed selection, provided by 3-step cone pulleys, expands range of pump capacity.
- Standard foot mounted NEMA 48 to 56 frame with fractional horsepower AC motor.
- Heavy duty ball bearing cam with worm and wheel speed reducer.



Options

- Plastic slurry head available up to 500 SSU
- 5000 SSU limit with metal ball checks
- Explosion proof, Chem Duty or DC motor
- Automatic AC or DC motor speed control by analog input signal
- Anti-siphon valves
- Wall bracket
- Splash guard
- Pipe connections

Applications

Proven reliable in thousands of long-term installations, the 1200 Series pumps are widely used in such applications as:

- Potable water treatment
- Wastewater treatment
- Industrial process water
- Industrial waste
- Cooling towers
- Metal processing
- Food industry
- Paper industry

Technical Data

Model Number	Head Diameter	Capacity per Head (GPH)	Speed (SPM) 3-step pulley	Max. Viscosity SSU*
121_ _ _ -92 _ _	3"	0.3	13	125
		0.6	26	
		1.1	46	
121_ _ _ -96 _ _	3"	0.9	39	125
		1.8	78	
		3.2	138	
121_ _ _ -92 _ _	4"	2.2	13	250
		4.5	26	
		8	46	
121_ _ _ -94 _ _	4"	2.7	17	250
		5.4	34	
		11	69	
121_ _ _ -96 _ _	4"	6.7	39	125
		13.5	78	
		24	138	
Suction Lift	3 ft. H ₂ O for non-effervescent fluids			
Weight including motor	Simplex: 65 lbs., Duplex: 75 lbs.			

*Viscosity limits are for plastic tubing on suction.
Double viscosity limit for rigid pipe connection on suction.

Maximum Pressure

Head Diameter & Material	Pressure
3" Plastic	150 psig
4" Plastic	125 psig
4" 316SS	200 psig

*Maximum motor size for all above types is 1/3 Hp, minimum is 1/4 Hp.

Temperature of Process Fluid

Material	Temperature Range
Hypalon®	32-150°F
Viton®	32-180°F
PVC/Tyrl®	32-120°F
316SS	32-180°F

