

Gear Pumps

The gear pumps are designed primarily for metering and transfer applications. Their modular design allows a wide variation of flow ranges with a standard parts set. These pumps provide a broad class of industrial pumps in flow ranges of 10 ml. per minute to 1 gal. per minute. All of the gear pumps are self-priming and are “constant flow” pumps when RPM and differential pressure are constant. The materials of construction for bodies, gears and seals, provide a wide range of fluid compatibility.



Features:

- Long life
- High pressure
- Reversible
- Self-priming
- Pump assemblies made with PPS Polymers
- Compact and durable
- Excellent chemical compatibility
- Positive displacement

Gear Pump Specifications:

Flow Rates — Range to 1.01 gpm; maximum pressure 240 psi

Motors — Thermally protected, continuous duty rated. Available in brush and brushless DC motors.

Fluid Temperature — To 199°F (93°C)

Materials in Contact with Solution:

See individual pump series.

Selection Procedure:

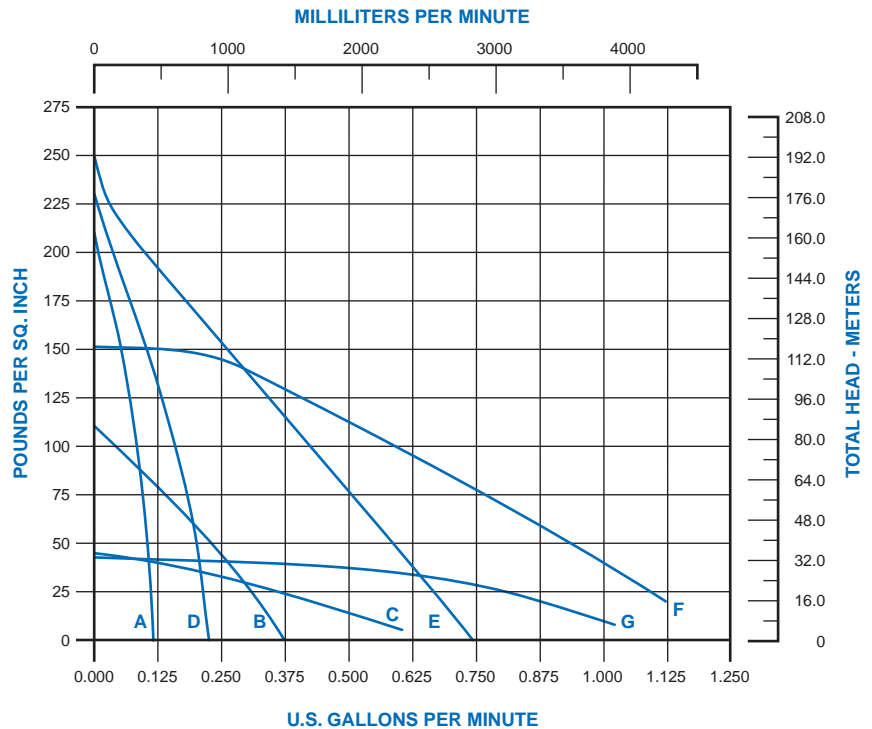
Determine the flow and discharge head requirements for your system. The performance curves on this page provide the flow rates for each gear pump series. If the performance curve characteristics of a pump model do not meet the exact requirements of your application, please consult the factory.

For proper selection of the materials of construction (pump body, seals, shafts, hose connectors, gears, O-rings) refer to the Chemical Resistance Section.

Mesh Size Recommendation:

A minimum 80 mesh screen is generally recommended for gear pumps for filtering such things as shavings, packaging materials, etc., in systems that are generally free of particulate contamination. For systems where sand, silt or other particle contamination is expected, a 400 mesh minimum screen is recommended.

It should also be noted that sufficient strainer area be provided in order to prevent pump starving and cavitation. The fluid flow rate and viscosity determine how much strainer area is needed. System design should always include testing with the inlet strainer blocked and with maximum fluid viscosity.



The above performance curves are designed to serve as a reference guide for locating a pump with the approximate performance range to meet your application (please consult the factory with exact application specifications). Each individual pump series is identified in the chart for each corresponding curve.

PERFORMANCE CURVES			
Series	Gear Thickness		
	.080"	.264"	.537"
1000	A	B	C
2000	D	E	F
3000	—	—	G