

EGM^{LLC}

PROCESS & CHEMICAL FEED EQUIPMENT

Oil & Gas • Power Generation • Chemical Processing • Mining • Pulp and Paper • Water Resources • Pharmaceutical

DIAPHRAGM PUMP SYSTEMS



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For low flow metering of aggressive materials, many client companies look to EGM to provide diaphragm based pumping systems to deliver reliable, accurate feed. Ranging from single pump systems, to massive units with more than two-dozen pumps installed, EGM has experience designing and building diaphragm based feed equipment with an abundance of options and accessories to custom fit the specific end-use requirements.

SPECIFICATIONS

- System Types:**
 - Digital Dosing Systems
 - Electronic Metering Pumps
 - Motor Driven Metering Pumps

- Available Brands:**
 - Prominent
 - Grundfos / Alldos
 - LMI
 - Pulsatron

- Unit Capacities:**
 - 0 – 70 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0 – 120 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0 – 180 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0 – 280 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0 – 690 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0 – 1670 cc/Min (120 VAC, 1Ø, 60Hz)
 - 0—User Specified (120 VAC, 1Ø, 60Hz)

- Chemical / Process Options:**
 - Chemical Flow Control:
 - Manual Control (Via Pump Touchpad Interface)
 - Manual Control (Via Pump Stroke / Pulse Setting)
 - DCS Control (4-20mA Signal)
 - Flush Water Flow / Dilution Water Flow Control:
 - Automated Control (Solenoid Valve)
 - Manual Control (Globe Valve)
 - Flush Water Flow / Dilution Water Flow Indication:
 - Automated Control (Magnetic Flowmeter)
 - Manual Control (Variable Area Flowmeter)
 - System Accessories:
 - Pulsation Dampeners
 - Back Pressure Devices
 - Calibration Columns
 - Custom Enclosures / Skid Materials



DUAL HEAD ALLDOS DIAPHRAGM PUMP UNIT

DIAPHRAGM PUMPING SYSTEM CONSIDERATIONS

WHEN TO USE A DIAPHRAGM PUMP:

- Low Flow rates or applications with high turndown
- Aggressive materials requiring inert materials of construction
- Precision dosing required
- Low viscosity fluids
- Shear sensitive materials

- Utilization of magnetic flowmeters and 4-20mA signals
- Proper installation of pulsation dampeners and back pressure devices to accurately meter and handle pulsation
- Timer packages, digital pump programming, turnkey feed systems

EGM EXPERTISE DELIVERS:

- Proper venting arrangements to prevent airlock



DIAPHRAGM PUMP SYSTEMS

With a wide array of diaphragm pump manufacturers building multiple different product lines, EGM is the company that can help you sort through the details to find the specific pump you need for your application and then incorporate it into a ready to use system.

Client companies who know that simply installing a pump will not be the answer, turn to EGM to incorporate these small metering devices into feed systems that delivery steady reliable product flow.

As demonstrated in these photographs, EGM can specify the pump you need based on your application information, or utilize the pump of your choosing to supply a complimentary system that only requires inlet and outlet connections, power supply, and remote control signal wire if equipped.

EGM can fabricate and supply systems mounted on stainless steel skids, or create custom poly platforms for harsh environments.



Pump Options



Complete System



EGM Diaphragm Pump Systems can be equipped with the proper piping accessories to insure great performance.

For metering applications, EGM offers either Prominent or Grundfos metering pumps as a standard component. Clients can further specify the specific pump they would like to have installed to meet mill, plant, or site standards.

EGM DIAPHRAGM PUMP FEED UNIT MODEL CODE EXAMPLE

ELF- DDP 1670 PS 120- PD- X

Series:

ELF = Low Flow Feed System (less than 5 gpm)

Configuration:

SDP = Simplex Diaphragm Pump Unit
 DDP = Duplex Diaphragm Pump Unit
 TDP = Triplex Diaphragm Pump Unit
 #DP = Where # is number of Pumps on Unit

Capacity:

Indicates Designed System Capacity per Application Details
 Example—1670 = 1670 cc / minute

Pump Code:

Designates specific pump used
 Example —PS = Prominent Sigma Series

Power:

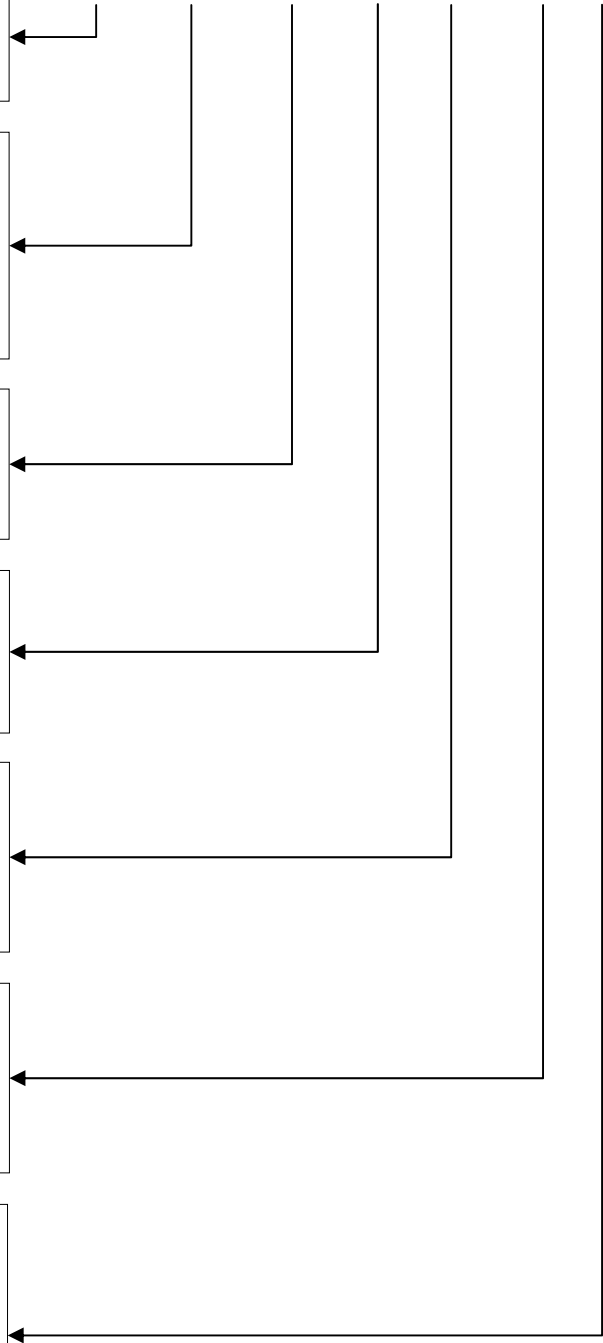
120 = 120 VAC
 480 = 480 VAC
 575 = CAS Certified 575 VAC

Option 1:

X = None
 PD = Pulsation Dampener
 FM = Flow meter

Option 2:

X = None
 SS = Stainless Steel Piping
 PVC = PVC Piping
 PP = Polypropylene Piping
 Q = Custom





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