



# CREATIVE ENGINEERS



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## DOSING-METERING PUMPS & DOSING SYSTEM

Dosing- Metering Pump is single acting reciprocating type positive displacement controlled volume pump which can deliver flow streams at adjustable & controlled rates in required process conditions.

These pump are also known as injection pump, feed pump, proportioning pump, leak less pump.

### **SPECIFICATIONS:-**

Flow Range :- 100 ml/hr to 15000 LPH,

Pressure Range :- Upto 1000 Kg/cm<sup>2</sup>,

Temperature Range :- 30°C to 150°C,

Manufacturing Standard :- API – 675,

### **Material Of Construction:-**

AISI 316 , AISI 304 , AISI 410 , CS , Alloy-20, Hastelloy C & B Titanium , Monel , Polypropylene , PTFE , NYLON , PVC, UHMWPE , etc.

### **Stroke Adjustment Cartridge:-**

Manual, Pneumatic and Electric

### **Wet and Cartridge :-**

Single acting or double acting plunger mechanically actuated diaphragm Hydraulically Actuated or double Diaphragm Bellow. Wet and Cartridge with heating or cooling jacket.

### **Valve :-**

Ball, Cone, Plate, Wing with or without spring Loaded.

Gland Packing: - U Seal (PTFE, Chevron, PU), Square Rope, Bellow Type.

Options: - Pressure relief valve, Pulsation Damper, Instrumentation and automation, complete dosing systems.

### **Gland Packing :-**

U seal (PTFE, Chevron, PU), Square rope, Bellow type.

### **Options :-**

Pressure relief valve, Pulsation dampner, instrumentation and automation, complete dosing systems



## MECHANICALLY ACTUATED DIAPHRAGM DOSING-METERING PUMP

- Compact
- Cost Effective
- Repairing / Reconditioning of any part can be easily carried out.
- Seal less or gland less version
- Can handle slurries , shear-sensitive fluids , Abrasive , Toxic , Hazardous liquid etc.



### CHOICES AVAILABLE

- Multiple head , sanitary design head , Remote head , Jacketed head
- Various types of non-return (check) valves
- Pressure relief valve for safety of pump and system
- Cost effective system such as tank pack with stirrer available

**CAPACITY:-** Up to 200 lph

**PRESSURE: -** Up to 12 kg/cm<sup>2</sup>

**M.O.C:-** AISI – 304, AISI-316, Alloy-20 , Hastalloy C & B , Titanium , Monel , Inconel , Polypropylene, PTFE, Nylon, PVC, UHMWPE etc.

**TEMPERATURE: -** Up to +100° c



## HYDRAULICALLY ACTUATED DIAPHRAGM DOSING-METERING PUMP OR DIAPHRAGM PROCESS PUMP

- Robust Construction
- Employing advance technology
- State of art technology
- User friendly
- Zero Chemical Leakage
- Can handle almost all slurries , Highly corrosive , Shear-Sensitive fluids , Abrasive , Radioactive , Toxic , Hazardous liquid.



### CHOICES AVAILABLE

- Multiple head , Double acting plunger head , Sanitary design head , Head with bellow seal , Remote head , Jacked Head
- Various types of non-return (check) valves
- Diaphragm Rupture indication technique.
- In built pressure relief valve for safety of pump and system available.
- Seal less or gland less version for environment friendly and safe operations.

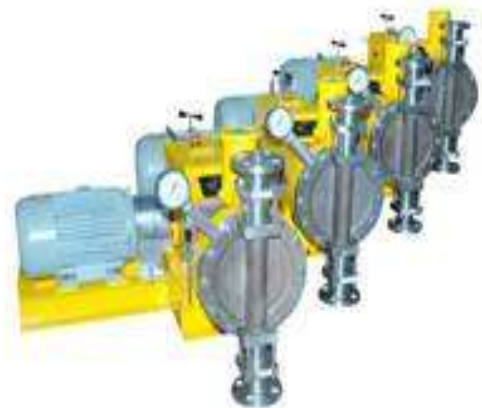
**CAPACITY:-** Up to 35000 lph

**PRESSURE: -** Up to 350 kg/cm<sup>2</sup>

**M.O.C:-** AISI – 304, AISI-316, Alloy-20, Hastalloy C & B, Titanium, Monel, Inconel, Polypropylene, PTFE, Nylon, PVC, UHMWPE etc.

**TEMPERATURE: -** 20° c to + 350° c

**CONFORMING: -** to API-675 Standard.



## PLUNGER TYPE – DOSING METERING PUMP

- Robust Construction
- High Metering Accuracy within + 1%,
- User Friendly
- Can handle almost all viscous or hot liquid,
- Low flow discharge possible
- Simple & Low Cost



### CHOICES AVAILABLE

- Multiple head , Double acting plunger head , Sanitary design head , Head with bellow seal , Remote head , Jacked Head
- Various types of non-return (check) valves, pressure relief valve for safety of pump and system are available.
- Chrome, Colomony, Boron, Ceramic coated or solid ceramic plunger choices are available choice of gland packing in PTFE, Chevron, Poly Urethane, Silicon, Poly amide upon request.
- Flushing or cooling arrangement for gland packing and plunger is possible.

**CAPACITY:-** Up to 15000 lph

**PRESSURE: -** Up to 1000 kg/cm<sup>2</sup>

**M.O.C:-** AISI – 304, AISI-316, Alloy-20, Hastalloy C & B, Titanium, Monel, Inconel, Polypropylene, PTFE, Nylon, PVC, UHMWPE etc.

**TEMPERATURE: -** 20° c to + 350° c

**CONFORMING: -** to API-675 Standard.



## **DOSING - METERING-MIXING SYSTEMS & PACKAGES READY TO BE INSTALLED ON SITE**

- Dosing Systems packages employing advance technology and offering total reliability are available at your services.
- We can cater to your requirement for the complete skid mounted chemical dosing system.
- Our experts are well versed in executing.
- Liquid dosing , Mixing , Chemical preparation , Means of regulation , automation and control in liquid dosing and mixing with expertise in engineering and project management.
- Non-Standard dosing pumps to meet the special requirements of specific applications.
- Undertakes Design,Manufacture , Technical help , Viability studies detailing various processes involved in dosing systems such as :
  - ✚ Water treatment chemical dosing.
  - ✚ Effluent-Sewage treatment chemical dosing.
  - ✚ Chemical – Solution preparation and metering package
  - ✚ Corrosion Inhibitor dosing.
  - ✚ Odorizing Injecting systems.
  - ✚ Additive or catalyst injection package
  - ✚ Hp-Lp dosing systems for boilers
  - ✚ Polymerization additives
  - ✚ Preparing-cleaning-Disinfecting solution dosing for CIP

We rate safety first i.e that of people & plant while executing the projects containing the dosing of toxic , Flammable or explosive and radioactive products , Hazardous area Installations , Processes in hostile environments: Earthquake areas , Marine environments , extreme temperature conditions , very high pressures , continuous use etc.

