CHEMICAL DOSING SYSTEMS

Bulletin CHM00-2014.07

DESCRIPTION

Chemical dosing systems are used to deliver constant flow of chemicals into a process stream such as sewage or sludge, produced water, high pressure gas, water/oil emulsions, etc. The main characteristic of these type of systems is that flow rate is controlled through metering type pumps.

APPLICATIONS:

- Waste water treatment
- Wellhead production enhancement
- Process/power plants
- Water/Oil separation

SERVICES:

- Oil/Water Emulsion Breaker
- Oxygen Scavenger
- Corrosion Inhibitor
- Scale inhibitor
- Biocide, PH Correction
- Methanol injection

AVAILABLE OPTIONS:

- Plastic or stainless steel materials for tank & piping
- Mixer
- Flow monitoring
- Explosion proof, 4x, 7 enclosure
- Multiple tanks & pumps in common skid

FEATURES:

- Turn-Key systems are designed and built to client specifications
- Fully automated option allows unattended 24h/7d operation
- Metering pumps to API-675 from world-class manufacturers.
- Skid mounted, shop tested & ready to operate.

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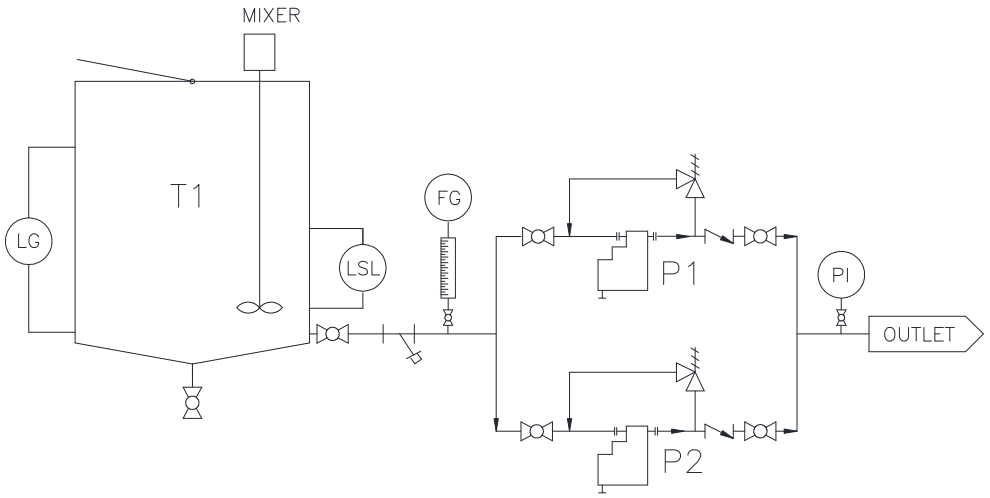
Controlled volume metering pumps can be adjusted while in operation using a calibration column in the suction header. Optional electronic calibration system allows for flow adjustment from the main control panel in remote control room.

A wide variety of automation levels is available. From all manual system to fully automated, PLC controlled with SCADA capability.

TYPICAL SKETCH:



BASIC COMPONENTS:

- T1 Storage Tank.
- P1,P2 Metering Pumps
- LG: Level Gauge
- LSL: Level Switch
- FG: Calibrating Column
- PI: Pressure Gauge
- Suction Strainer
- Isolation Valves
- Pump Recirculation Valves
- Mixer (Optional)
- Control Panel

MODEL NUMBER LOOKUP: **CHM -** ☐☐ **-** ☐☐☐☐☐☐☐ **-** ☐☐

1 2 3 4 5 6 7

1: Service
- **CI** = Corrosion Inhibitor
- **SI** = Scale Inhibitor
- **MI** = Methanol Injection
- **BI** = Biocide
- **PH** = PH Control
- **NA** = Sodium Hypochlorite
- **OS** = Oxygen Scavenger
- **EB** = Emulsion Breaker

2: Tank Capacity (gal)

3: Tank Material:
- **P** = Reinforced PVC
- **S** = Stainless Steel
- **C** = Carbon Steel
- **F** = Fiberglass

4: Piping Material:
- **P** = Reinforced PVC
- **S** = Stainless Steel
- **C** = Carbon Steel

5: Qty of Pumps Number

6: Electric Enclosure:
- **3** = Nema 3
- **4** = Nema 4x
- **7** = Nema 7

7: Optional Mixer:
- **M** = Mixer
- **0** = None

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