



 **LMI**
MILTON ROY

Accessories



water and
wastewater
treatment

boilers

cooling towers

swimming pools
and fountains

chemical
processing

pulp and paper

food processing

plating and
finishing

municipal
water
treatment

industrial
processing

Liquid Metronics Incorporated is the leading manufacturer of Chemical Metering Pumps, Controllers, and Accessories. For over 25 years our trademark yellow and black products have set the standard for water treatment professionals around the world. LMI manufactures a wide range of electromagnetic and motor-driven metering pumps and controllers for simple chemical addition, to complete systems to control conductivity, pH, and ORP.

LMI products are designed and manufactured in our ISO-9001 facilities throughout the world. Our pumps and controllers provide reliable, dependable operation in a variety of industrial processing applications.

Water treatment professionals rely on LMI's proven track record of versatility and experience:

- industrial
- commercial
- residential
- agricultural
- OEM

All LMI products are supported by a global network of stocking distributors and service centers.



Pump Accessories

LMI pump accessories include:

- Level Switches
- Tanks
- Flow Monitors
- Mounting Kits and Brackets
- 4-20 mA and Pulse Modules
- Corp Stops
- Mixers
- Fluoride Saturators
- Calibration Cylinders
- Flowmeters



Controller Accessories

LMI manufactures a variety of controller accessories which include:

- Probe and Electrode Manifolds
- pH and ORP Pre-Amplifiers
- Flow Switches
- Boiler Probes
- Motorized Ball Valves
- Timers



Accessories

Calibration Cylinders

- Provides verification of metering pump output
- Constructed of chemically resistant PVC
- Graduations in both ml and GPH
- Available in two models: Vented (permanently sealed with overflow vent) or EZ-clean (top is o-ring sealed with vent which can be removed for easy cleaning)
- Three sizes: 200, 1000 and 4000 ml
- Clear viewing tube
- Pipe thread (NPT) overflow connection available



Syphon Breakers



- Prevents syphoning by venting discharge lines to atmosphere
- Acrylic construction
- Installs easily in existing discharge line
- Popular for fluoride applications

Conduit Connection Kit



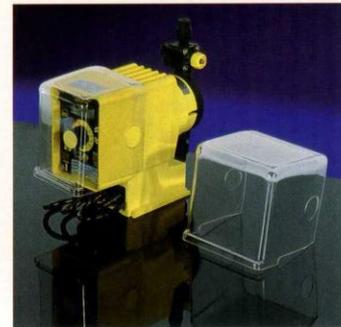
- Adapts standard power cord end to 1/2" NPT conduit connection
- Quick and easy installation

Pressure Relief Valves/Back Pressure Valves



- Provides positive discharge pressure
- Prevents syphoning and eliminates varying dosing rates
- High reliability/low cost
- Rugged, machined construction
- Vulcanized PTFE-faced diaphragm
- Externally adjustable 0-150 PSI (10.3 bar)
- Non-chatter design
- PVC, stainless steel, PP and PVDF construction

Splash Guard



- Protects series A, B, or C pump control panels from splash and spray
- Clear, easy to see through Uvex material
- No fasteners required

Remote Auto Flush Controller



- Automatically flushes slurry type liquid ends 29, 79, and 89
- Available in 115 VAC or 230 VAC
- Solenoid connects to fresh water supply (125 PSI max.)
- Manual-off-auto control switch
- Flush adjustment from 1-20 seconds on a 1 min. repeating cycle

Primer Flush Kit



- Primes and flushes slurry liquid ends
- Easy field installation
- Polypropylene and ultra-high molecular weight polyethylene construction
- Kits for .375" O.D. and .5" O.D. tubing

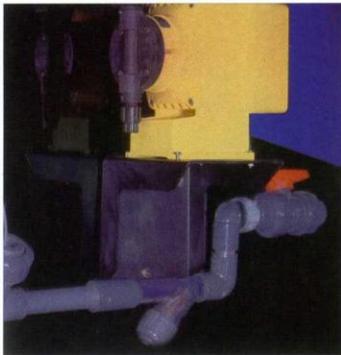


Head Screw Kit



- Set of four Hastelloy C head screws
- Chemically resistant in sodium hypochlorite applications

Wall Mount Bracket Assembly



- Mounts any series A, B, C, J, or P pump
- Rugged corrosion resistant polypropylene construction
- All hardware included for wall and pump mounting
- Positions pump away from chemical drum and provides a stable mounting surface

Tubing Connector Assemblies



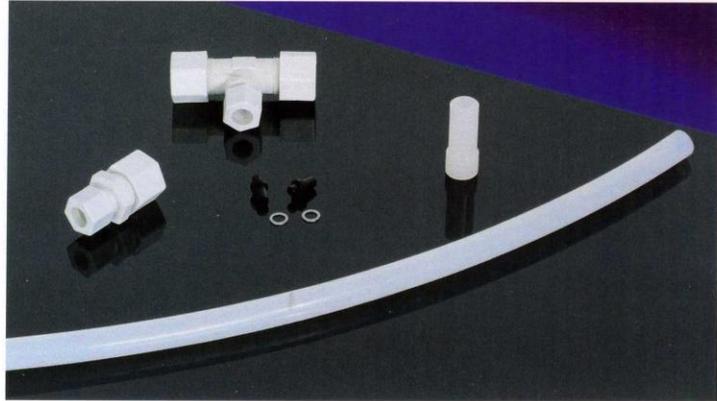
- Adapt tubing to tubing
- Adapt tubing to pipe, and vice versa
- PVC, PVDF, and PP construction

Pulse Transmitter



- Daisy chain up to ten A7, B7,C7 or P7 pumps
- Quick and simple installation. No fasteners or wire connections needed
- Ideal for flow proportioning of more than one chemical or increasing pumping capacity
- 10 ft. (3m) cable

Secondary Tubing Containment Kit



- Kits for 1/4" and 3/8" O.D. tubing
 - PE and PP construction
 - Customer provides 5/8" containment tubing
 - Overflow returns to tank
 - No tools required
- Kit contents
 - (2) Special coupling nuts
 - (2) PP connectors
 - (1) PP tee
 - (1) PE telescope tube

Extension Cable Assemblies



- Available in type 7 and type 9 control codes
- Extend distances between products
- Cable lengths from 10 to 100 ft.
- RFP flowmeter extension cables also available
- Shielded twisted pair also available



Micropace™ Control Modules

Available in three models: MP-100, MP-400D, MP-500M



Micropace™ MP-100 (4-20 mA converter)

- Enables A7, B7, C7, and P7 pumps to receive 4-20 mA input signals
- Output adjustment is linear over 100 spm range. 4 mA=0 spm, 20 mA=100 spm (non-adjustable)
- Can operate several pumps in series (load: 100 ohms impedance)
- Powered by the pump

Micropace™ MP-400D and MP-500M

- Multiply or divide incoming pulse signals from external devices (flowmeters, PLC)
- Dip switch programmable. Multiply 1-1023. Divide up to 1800 pulses per minute
- Ideal for low or high pulse frequency flowmeters
- Totally enclosed IP-65 construction

FC Flowmeters

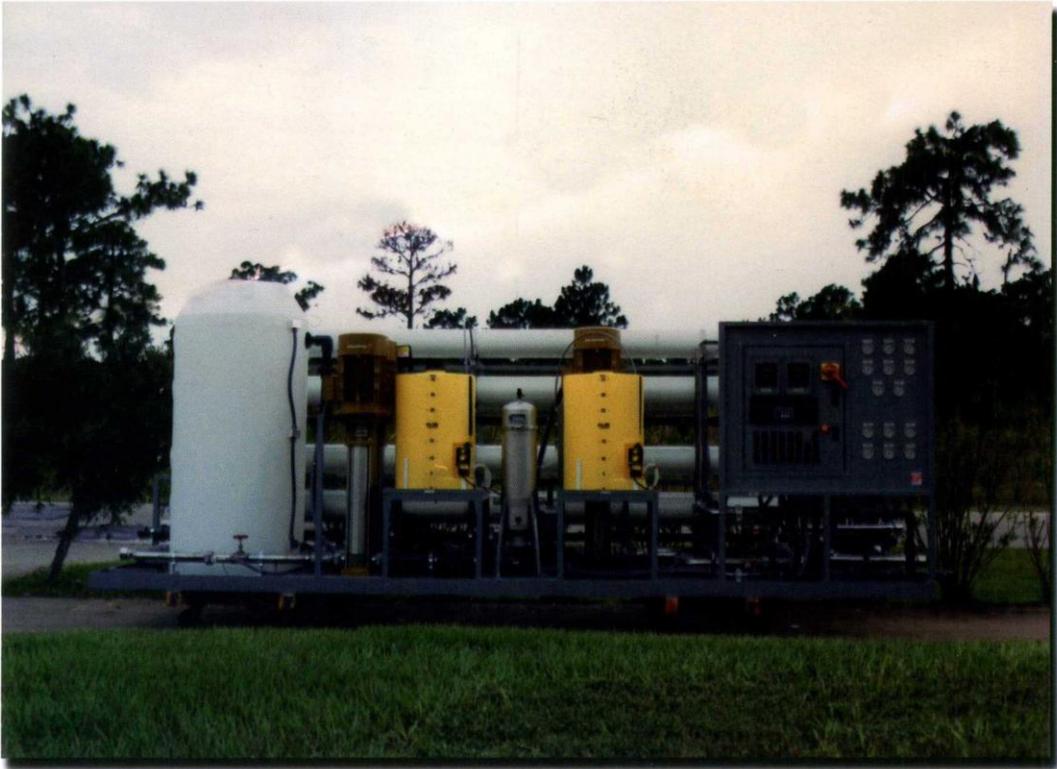


- For proportional chemical metering
- Flow rates from .22 - 30 GPM
- Line sizes 3/4" and 1"
- Magnetic drive, no packing glands, dry register
- Magnetically operated glass enclosed reed switch contactor

Digi-Pulse™ Flow Monitors



- Monitors discharge flow (pulsating) from pump
- Corrosion resistant UHMW PE construction
- Adjustable flow range
- Signals type 9 pumps of missing pulses (alarm relay)
- Can be mounted in-line
- Maximum pressure 150 PSI



Remote Flowmeter Pulser

- Ideal for flow proportional systems. As the water flow rate increases, the chemical injection rate increases proportionally
- NPT pipe connections:
3/4" - 6" pipe
- Designed for use with clean, fresh water
- Pressures to 175 PSI
- Exceeds all AWWA class 1 turbine meter standards

Fluoride Saturator



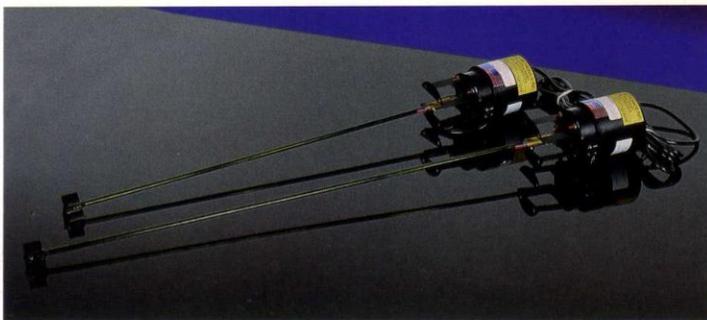
- Automatic solution level
- Up-flow design
- UV resistant, 50 gallon polyethylene tank with structural polyethylene cover
- Fluoridate water flows to 10,000 GPM
- For use with crystalline or powdered sodium fluoride
- Syphon breaker included
- Solenoid valve and liquid level switch included (115 VAC, 60Hz)
- Fluoride level light included

Tank Assemblies



- Available in three sizes: 50 gallon, 35 gallon, and 10 gallon
- Ultraviolet resistant polyethylene
- The 50 gallon tank has a ridged polyethylene cover with molded recess for mounting pump, agitator and liquid level switch
- The 35 gallon tank has a built in shelf for mounting series A and P pumps in flooded suction
- The 10 gallon tank has molded recess for mounting series A and P pumps
- Graduation in gallons and liters
- Maximum solution/ambient temperature 110°F
- Minimum solution/ambient temperature 0°F
- Suitable for most corrosive and non-corrosive solutions

Tank Agitator



- Shafts are constructed of corrosion resistant epoxy coated SS or Neoprene™
- Available in 115 VAC or 230 VAC versions
- Shafts lengths of 34" or 27" (for LMI 50 and 35 gallon tanks)
- Mounting bracket and hardware included
- Suction tubing shield included (50 gallon sizes)

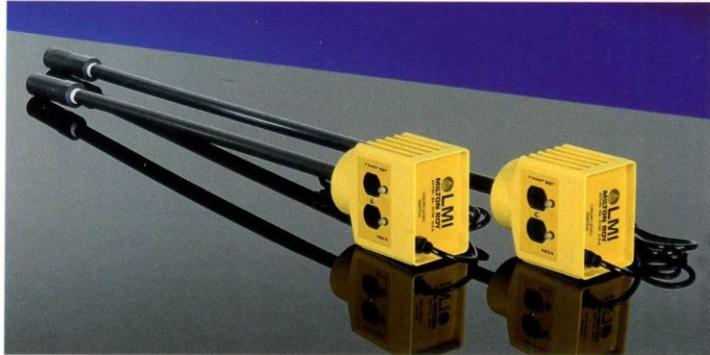


Low Level Switch



- Interrupts operation of type 7 and 9 pumps when tank level drops below selected level
- Prevents loss of prime
- Durable PVC construction
- Quick and simple installation (no fasteners required)
- 6 ft. (1.8m) cable

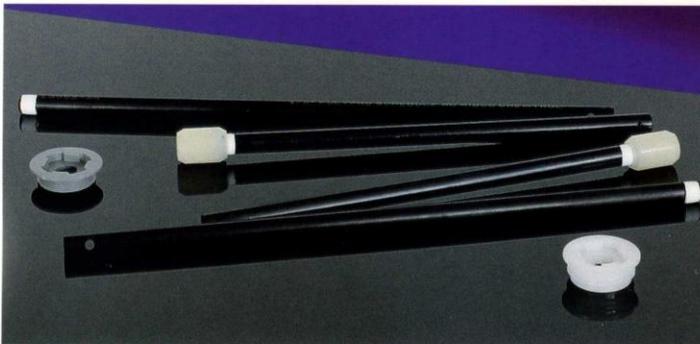
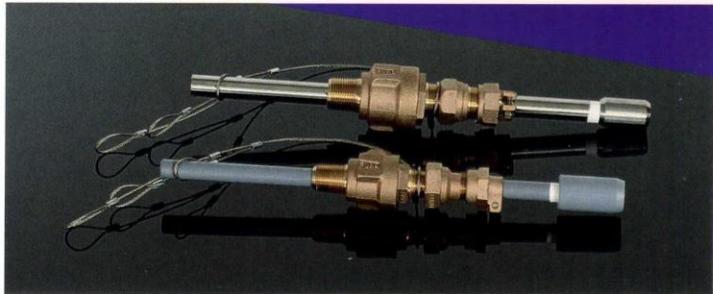
Liquid Level Switch



- Alarm output receptacle activates when tank level is low
- Automatic power interrupt of pump to prevent loss of prime
- Four versions available for 35 or 50 gallon tanks, 120 VAC or 230 VAC
- Corrosion resistant switch assembly housing of glass - fiber reinforced polypropylene
- PVC float tube
- Foamed polypropylene float with encapsulated reed switch
- Float protector prevents false actuation due to turbulence and rough handling
- Low voltage (12 volts) transformer to reed switch for safety
- Indicator lights for low level or pump on

Corporation Stop & Nozzle Assembly

- Injects chemical into the center of the water flow
- Available in four sizes:
 - 1" NPT with PP,
 - 1" NPT with Carpenter 20 SS,
 - 1" Mueller with PP, and
 - 3/4" NPT with CPVC
- Maximum pressure: 150 PSI
- Accepts 1/2" NPT injection check valve



Drum Safety Wand

- Protects suction line from damage
- PP construction
- Fits 55 gallon drum connections
- 2" NPT bung or 2" buttress threads available



Liquid Metronics Incorporated
8 Post Office Square
Acton, MA 01720 USA
(978) 263-9800
(978) 264-9172 FAX
www.lmipumps.com

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