

LPM

liquid additives batching systems by weight

INTRODUCTION TO THE SYSTEM



The LPM batching system is one of the best methods for dosage of LIQUID ADDITIVES used normally in the concrete industry, such as: fluidizers, superfluidizers, admixtures, waterprooferers, antifreeze, etc.

The system is composed of a transparent Plexiglass CYLINDER with a graduated index that allows visual reading of the quantities (min. resolution: deciliters), a PUMPING UNIT that includes a two-way corrosion-proof adjustable delivery electric pump, a solenoid valve for discharge toward the loading point and all the necessary fittings, and a LOAD CELL transducer for connection to a digital display for visual or automatized quantity measurement.

For concrete batching plants working in MANUAL mode only, the unit is controlled through the main electrical switchboard or an additional control panel for batching visually following the level inside the graduated cylinder and stopping the discharge automatically once the empty or zero-scale control is reached.

For concrete batching plants working in AUTOMATIC mode also, the transducing system mounted inside the cylinder generates the signal needed by the automation system in order to control the batching of the requested quantity, according to the formula and volume of the required mix. Even in automatic mode, the discharge is stopped by the same empty threshold setting, in order to guarantee that batching will always start up again from the same zero point.



In order to meet the various needs of the concrete industry, three capacity versions have been created: a 3 liter model, a 15-liter model (actual capacity 14 liters) ideal for the quantities batched in plants for precast production, a 45-liter model (actual capacity 42 liters) and a 60-liter model, which are ideal for plants designed for truckmixer loading, up to 12 cubic meters per load.



TECHNICAL FEATURES

LPM/03 BATCHER

- Plexiglass cylinder, max. capacity 3 l, actual 3 l.
- Adjustable two-way pump, 0.55 kW 380 Vac (or others on request), delivery head 15 m, delivery 30 l/min.
- 3/4" electropneumatic valve, 24 Vac.
- Load cell transducer.
- Visual reading range from 0 to 3 liters.
- Minimum division on graduated scale: 1 dl.
- Measurement accuracy error lower than 0.5%.
- Control board power supply: 24 Vac/10 VA.
- Operating temperature: 0-40°C.
- Storage temperature: 0-50°C.
- Weight of cylinder unit: approx. 13 Kg.
- Weight of pump unit: approx. 45 Kg.

LPM/15R BATCHER

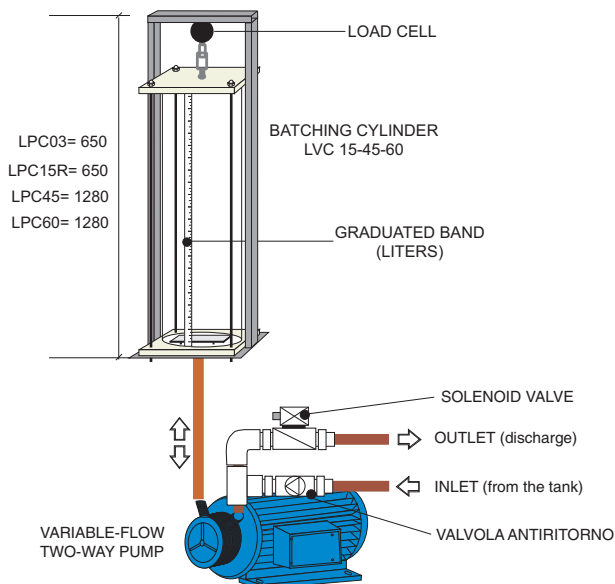
- Plexiglass cylinder, max. capacity 15 l, actual 14 l.
- Adjustable two-way pump, 0.55 kW 380 Vac (or others on request), delivery head 15 m, delivery 30 l/min.
- 3/4" electropneumatic valve, 24 Vac.
- Load cell transducer.
- Visual reading range from 0 to 14 liters.
- Minimum division on graduated scale: 1 dl.
- Measurement accuracy error lower than 0.5%.
- Control board power supply: 24 Vac/10 VA.
- Operating temperature: 0-40°C.
- Storage temperature: 0-50°C.
- Weight of cylinder unit: approx. 15 Kg.
- Weight of pump unit: approx. 45 Kg.

LPM/45 BATCHER

- Plexiglass cylinder, max. capacity 45 l, actual 42 l.
- Adjustable two-way pump, 0.55 kW 380 Vac (or others on request), delivery head 15 m, delivery 35 l/min.
- 3/4" electropneumatic valve, 24 Vac.
- Load cell transducer.
- Visual reading range from 0 to 42 liters.
- Minimum division on graduated scale: 1 dl.
- Measurement accuracy error less than 0.5%.
- Control board supply: 24 Vac/10 VA.
- Operating temperature: 0-40°C.
- Storage temperature: 0-50°C.
- Weight of cylinder unit: approx. 20 Kg.
- Weight of pump unit: approx. 45 Kg.

LVM/60 BATCHER

- Plexiglass cylinder, max. capacity 60 l, actual 60 l.
- Adjustable two-way pump, 0.55 kW 380 Vac (or others on request), delivery head 15 m, delivery 35 l/min.
- 3/4" electropneumatic valve, 24 Vac.
- Load cell transducer.
- Visual reading range from 0 to 60 liters.
- Minimum division on graduated scale: 1 dl.
- Measurement accuracy error less than 0.6%.
- Control board supply: 24 Vac/10 VA.
- Operating temperature: 0-40°C.
- Storage temperature: 0-50°C.
- Weight of cylinder unit: approx. 23 Kg.
- Weight of pump unit: approx. 45 Kg.



APPLICATION EXAMPLE

