

MasterDose[®] AVC (Accurate Volume Control) Admixture Dispenser

Description

The Master Builders Solutions patented MasterDose AVC Admixture Dispenser consistently and precisely measures and dispenses concrete admixtures. This smart dispenser can accurately measure small, and large admixture volumes at any rate of flow. Every part has been engineered with a specific System Design Qualification (SDQ) to ensure rapid response. The MasterDose AVC Dispenser also contains an alarm feature to prevent out-of-spec batches from being used in production. The smart dispenser technology requires low maintenance, which minimizes concrete production downtime.

Smart Dispensing Technology

The MasterDose AVC Dispenser has been engineered to reduce inaccuracies caused by typical admixture dispenser errors. Out-of spec batches are aborted and the dispenser operator is notified of the error.

The volume of the admixture dispensed by the MasterDose AVC Dispenser is recorded by the on-site tank monitoring processor, sent to the on-site LCD display or VGA monitor, and forwarded to the online database. Admixture volumes dispensed into each batch of concrete, along with monthly totals, can subsequently be viewed online.

Features

- Improved accuracy, consistency, and reliability compared to bottle style dispensers
- Meets the requirements of the National Ready Mixed Concrete Association (NRMCA)
- Easily connects to the existing on-site fill and meter wiring
- Works with the tank monitoring processor to provide dual verification and accurate recording of dispensed admixture
- Accurate small and large volume batching

- Can abort batches for the following conditions:

- No flow through meter
- Empty pipe detection
- Operating faster or slower than the SDQ Flow Rate
- Air operated valve failure
- Low supply air pressure
- Dual meter readings out of tolerance
- Temperature of the admixture storage room is below or above operating temperatures

Benefits

- Quality and consistency of concrete batches
- Real-time visibility
- Low maintenance

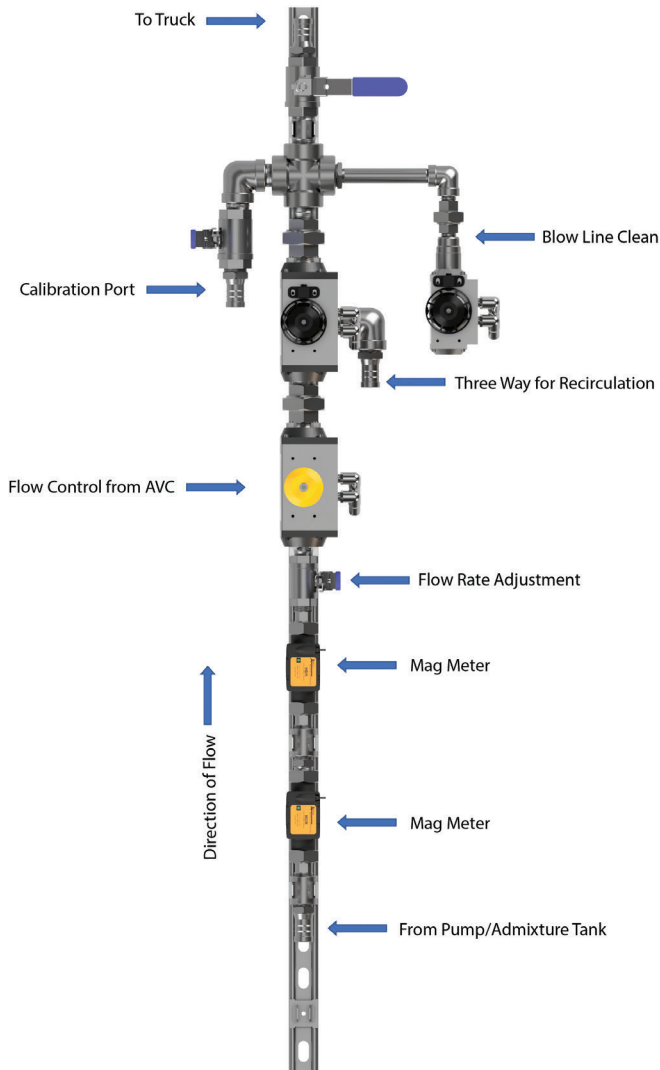
Performance Characteristics

Dispenses either small or large volumes precisely and accurately with a resolution of 0.01 fl oz (0.3 mL) and a maximum flow rate of 80 gal (300 L) per minute.

Applications

- Low dosage: Manufactured Concrete Products using Air-Entraining Admixture dosage of 1.5 fl oz (45 mL) per batch
- High dosage: Cold weather accelerating admixture dosage of 3 gal/yd³ (15 L/m³)

General Diagram



Additional Information

For additional information on the MasterDose AVC Dispenser, contact your local Master Builders Solutions sales representative.

About Master Builders Solutions

Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focussed on delivering its vision: **Inspiring people to build better**. Master Builders Solutions provides value-added technology and market-leading R&D capabilities to improve the performance of

construction materials and to enable the reduction of CO2 emissions in the production of concrete. Founded in 1909, Master Builders Solutions has ca. 1600 employees operating 35 production sites globally, supporting their customers in mastering their building challenges of today – for a decarbonised future.

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