



Badger Meter

Admix Dispenser System

Semi-Automatic

DESCRIPTION

The Badger Meter® Semi-Automatic Admix Dispenser is designed for use in concrete batch plants, block plants, pre-stress concrete plants or wherever the need for dispensing admixtures exists. Using the flow metering system with electronic transmitter and the AC-151 semi-automatic control, these dispensers are accurate, reliable and easy to operate. Built to exacting standards of performance, these dispensers will provide dependable service in all types of batch plant environments.

The dispenser is available in sizes from 30 ounces (850 grams) to 30 US gallons (113 liters). It can be operated in either automatic or manual modes.

Pre-mounted on a steel backplate, the dispenser is fully wired, pre-tested and ready for installation. You can specify the measuring unit in either a bottom fill, bottom discharge or an optional bottom fill, top discharge configuration. A washout option is also available. The dispenser can be custom tailored to meet your specific dispensing needs.

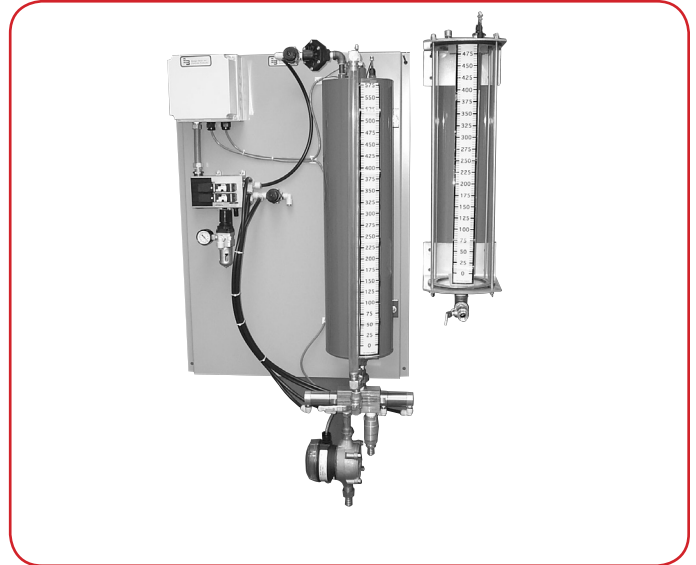
Options and Accessories

- Diaphragm pump assembly
- Pump drum assembly
- Pre-wired control cable, cut to specified length
- 3/8 inch poly tubing in 100-foot lengths and 3/4 inch or 1 inch black rubber hose in 50-foot lengths

OPERATION

You operate the dispenser with the AC-151 semiautomatic control. When operating in either automatic or manual mode, the AC-151 can batch admixtures in total ounces, ounces/100wt, or ounces/cubic yard. The AC-151 can electronically compensate for meter and system variances.

A programmable, timed discharge feature allows the installer to select the amount of time, from one to 99 seconds. The dispenser will continue in the discharge cycle after the zero point has been reached, allowing for blowing fluid lines and hoses clear. Features include a fail safe that will stop the dispensing if the pulse output from the flow metering system is interrupted. Also, there is a discharge hold for manual control of the discharge cycle and LED indication of each dispensing cycle.



FEATURES

- Batching in total ounces, ounces/100wt or ounces/cubic yard
- Electronic compensation for meter and system variances
- Programmable timed delay discharge
- System fail safe shutdown
- Available in various sizes (consult the factory)
- Optional visual verification with MEASURE RITE® site tube assembly

Notice

Scaled decals are provided as a convenience for reading tank levels. They are not certified, due to normal variations in tank diameter, decal printing and placement of the decal. Any settings, adjustments or measurements based on the decals should be verified using a certified or calibrated vessel or other device prior to commissioning.

SPECIFICATIONS

Measuring Unit	Zero and overflow probes	316 stainless steel, electrically insulated
	Material	Available in sizes ranging from 30 ounces to 30 gallons. Also available in various materials and pressure ranges. (Consult factory for your specific requirements.)
Solenoid Valves	Type	4-way
	Voltage rating	120V AC
	Operating pressure range	20...140 psi (1.8...9.7 bar) (valve rating)
	Override	Manual, non-locking
Liquid Valves	3/4 in. or 1 in full ported pneumatic valves used for fill and discharge	
Back Plate Dimensions	120...350 oz, 20 x 37 inches	
	600...950 oz, 26 x 37 inches	
	1425 oz, 26 x 49 inches	
	1900 oz, 26 x 61 inches	
	Also available in PVC	
Flow Meter	Material	Housing, bronze Chamber and disc, high performance resin Other, 316SS
	Size	5/8 in.
	Flow range	1...30 gpm (3.8...114 lpm)
	Accuracy	± 1% (range 3...20 gpm) (range 11...76 lpm) ± 2% (accuracy over full range)
	Repeatability	0.5 %
	Operating temperature	32...250° F (0...121° C)
	Operating pressure	150 psi (10 bar) (meter rating)
	Maximum pressure loss	9 psi (0.6 bar) at full flow
Flow Transmitter	Materials	High impact, reinforced Nylon
	Mounting	Bayonet type with set screw, 360° orientation
	Connections	Two 1/2 in. NPT threaded conduit ports
	Protection	NEMA 4X (watertight and corrosion proof)
Operation	Sensor	Magneto-resistive sensor
	Scaling and calibration	Four each, 10-position rotary switches
	Operating temperatures	Scaler board: -4...185° F (-20...85° C) Sensor: -4...250° F (-20...121° C)
Electrical	DC input power	12...24V DC
	DC output	Opto-isolated open collector NPN transistor
	Transistor rating	50 mA @ 24V DC
	AC input power	115V AC ± 15%
	AC output	Opto-isolated zero crossing triac
	Triac rating	130V RMS @ 500 mA
	Scaling resolution	0.0001...0.9999
Model AC-151 Admix Control	Power supply	117V AC ± 10% Power entry module with power cord and Off/On switch provided
	Enclosure	Non-metallic Nema 4X Rated 3-1/2 inch threaded conduit opening 1-3/4 inch threaded conduit opening
	Front panel switches and displays	Membrane switch with feedback and LED indication Display, four-character LED.
	Outputs	Fused I/O module, 117V AC 5 Amp max. For fill and discharge solenoid valves
	Inputs	117V AC for zero, overflow, and meter Note that controller requires probe amplifier for interface between dispenser and controller

Control. Manage. Optimize.

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