AQUADOS AUTOMATIC VOLUME BATCHER

D05-AQUADOS-FT-001

Product data sheet · Automatic dosers

Automatic volume batcher for filling cisterns, tanks, drums and bottles. Combined with a pulse water meter and a solenoid valve, it batches from a few tenths of a litre to several thousand litres, on any pipeline size.



Technical data

Power supply	24 Vac or 24 Vdc (terminals 1 and 2); 230 Vac version
Water meter	With pulse output (terminals 3 and 4)
Solenoid valve	Same voltage as the power supply: 24 Vac or 24 Vdc (terminals 5 and 6)
Batched volumes	From a few tenths of a litre to several thousand litres

Description

The AQUADOS automatic volume batcher fills cisterns, tanks, drums and bottles with a programmed volume. It works with a water meter with pulse output and a solenoid valve: the valve opens at the start of the cycle, the batcher counts down the litres measured by the meter and closes the valve when the programmed volume is reached.

The AQUADOS can be installed on any pipeline size: only the sizes of the meter and the valve limit the installation.

It accepts any water meter fitted with a pulse output. The batching accuracy depends on the accuracy of the meter and on its installation.

Performance

Combined with an Aqua'Tec water meter, the AQUADOS batches accurately. Choose the size of the valve and meter assembly according to the volume to be batched and the available flow rate.

Water meter flow rates by diameter

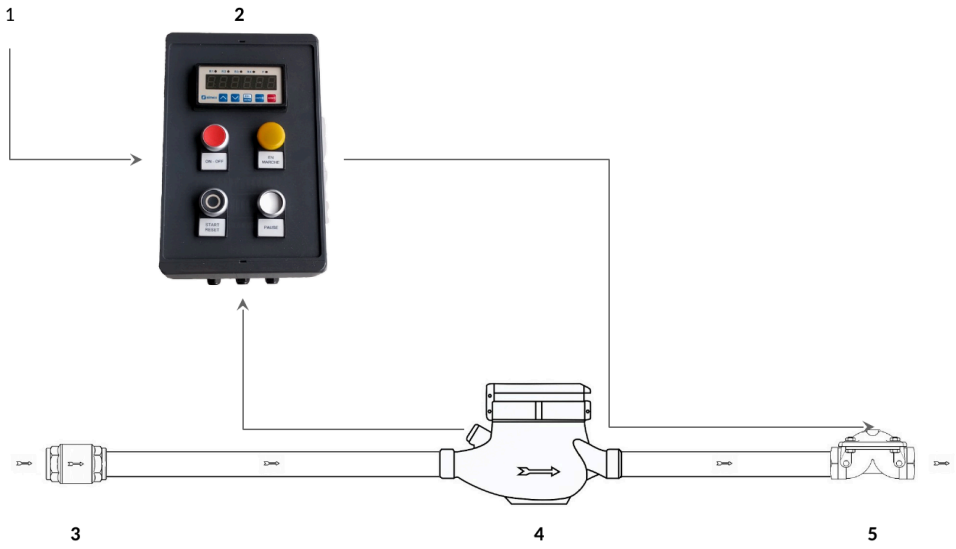
DN	Inlet / outlet	Min. flow rate (m^3/h)	Transitional flow rate (m^3/h)	Nominal flow rate (m^3/h)	Max. flow rate (m^3/h)
15	1/2"	0.0156	0.025	2.5	3.125
20	3/4"	0.025	0.04	4	5
25	1"	0.0394	0.063	6.3	7.875
32	1" 1/4	0.0625	0.1	10	12.5
40	1" 1/2	0.1	0.16	16	20
50	2"	0.1563	0.25	25	31.25
65	2" 1/2	0.788	1.26	63	78.75
80	3"	0.788	1.26	63	78.75
100	4"	1.25	2	100	125
125	5"	2	3.2	160	200
150	6"	3.125	5	250	312.5

DN	Inlet / outlet	Min. flow rate (m^3/h)	Transitional flow rate (m^3/h)	Nominal flow rate (m^3/h)	Max. flow rate (m^3/h)
200	8"	5	8	400	500
250	10"	7.875	12.6	630	787.5
300	12"	12.5	20	1000	1250
400	16"	20	32	1600	2000
500	20"	31.25	50	2500	3125

Minimum flow rate = Q1, transitional flow rate = Q2, nominal flow rate = Q3, maximum flow rate = Q4.

The flow rates are those of the current Aqua'Tec water meters: cast iron multi-jet meter from 1/2" to 2" (DN 15 to DN 50, sheet W01-WMMJ-FT-001), Woltmann meter from DN 65 to DN 500 (sheet W01-WMWT-FT-001).

Installation



Typical installation diagram

1. Power supply
2. AQUADOS batcher
3. Check valve
4. Pulse water meter
5. Solenoid valve

Electrical connection: power supply on terminals 1 and 2, meter on terminals 3 and 4, solenoid valve on terminals 5 and 6.

Operation

Start-up, starting a cycle and the settings (volume to be batched, early stop volume, meter K factor) are described in installer manual D05-AQUADOS-MA-001.

Related documents : D05-AQUADOS-MA-001, W01-WMMJ-FT-001, W01-WMWT-FT-001

Product codes : AQUADOS-24