ATHENA



SERIES

INJECTA
the perfect dosing

Electromagnetic pumps

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General features

In the field of precision dosing solutions, the ATHENA Series stands out for its performance and versatility

1 **Performance**

High performance and versatility in precision dosing

2 **Flow Rate**

Models flow range: 0.4 – 110 L/h

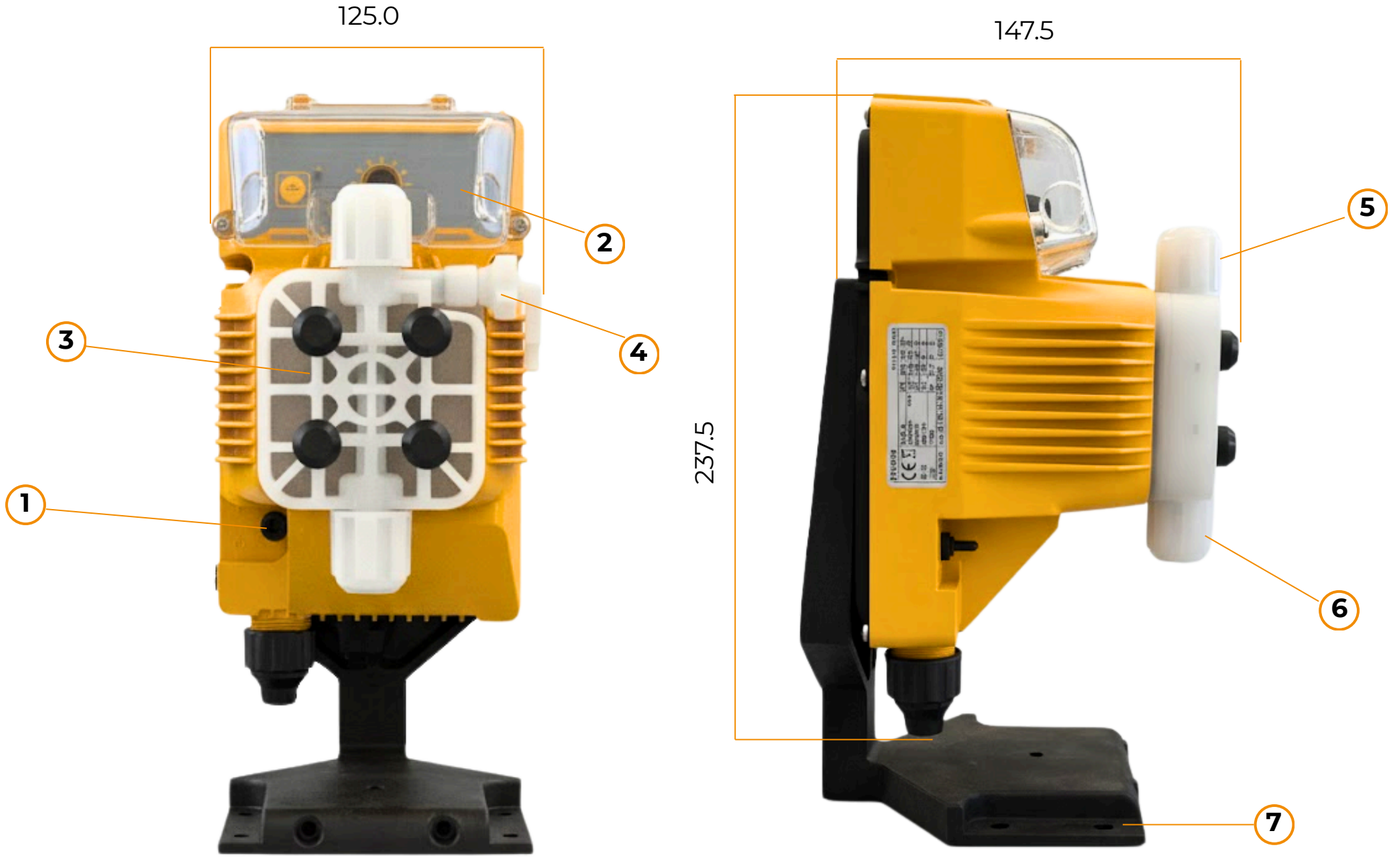
3 **Pressure**

Manageable backpressure for the models: 0.1 – 20 bar

3 **Applications**

Wide application range

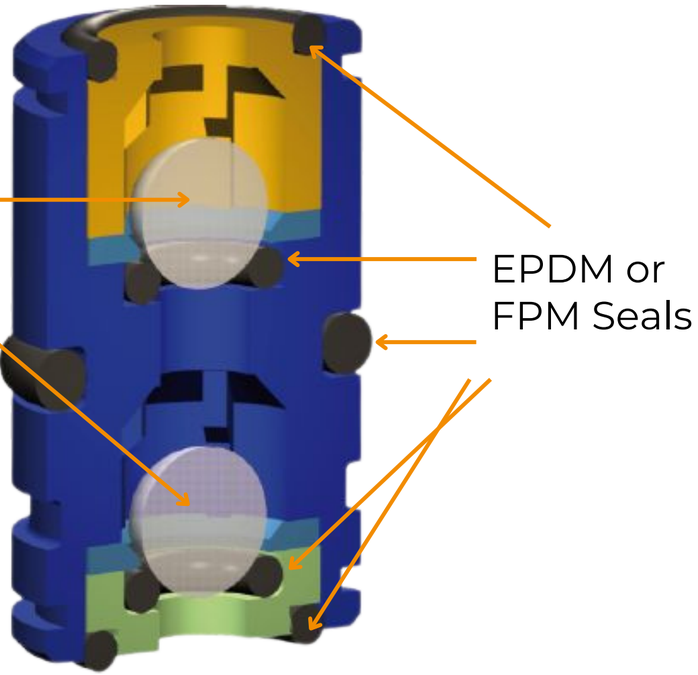
Dimensions and Components



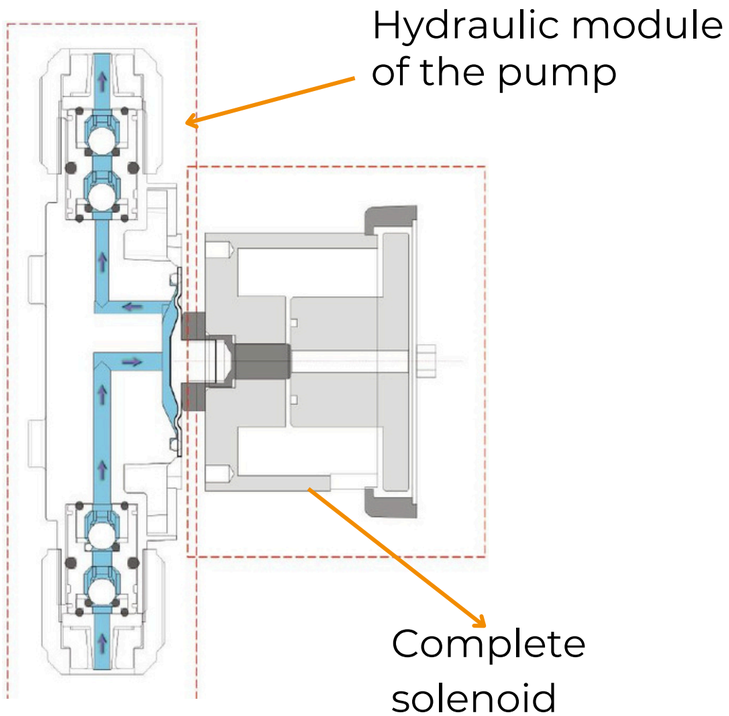
1. Power Switch (only on the analogue version)
2. Setting Area
3. Dosing Head
4. Drain Valve
5. Outlet Fitting
6. Suction Fitting
7. Mounting Bracket

All models share the same structure

Hydraulic features



PVDF complete
valve



Electrical features



Connector with simplified power supply and level inputs

Level probe connector (included)

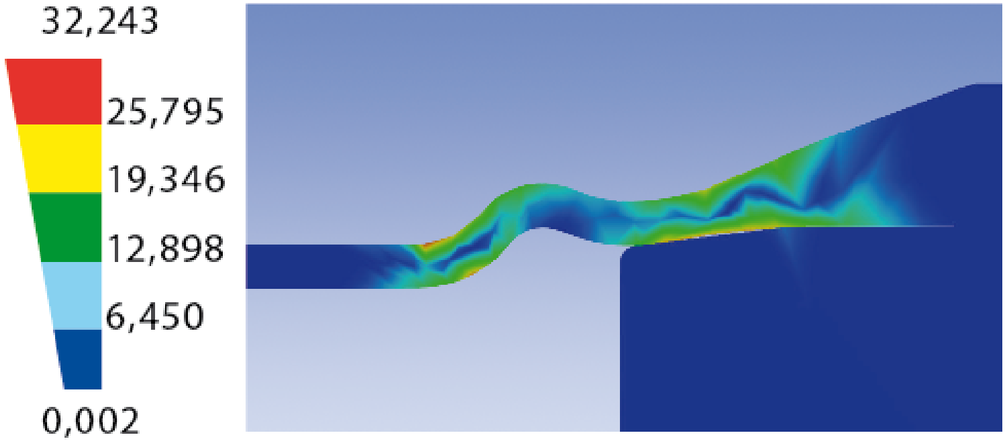
Single-phase power input

Level input (excluded only in the basic BX model)

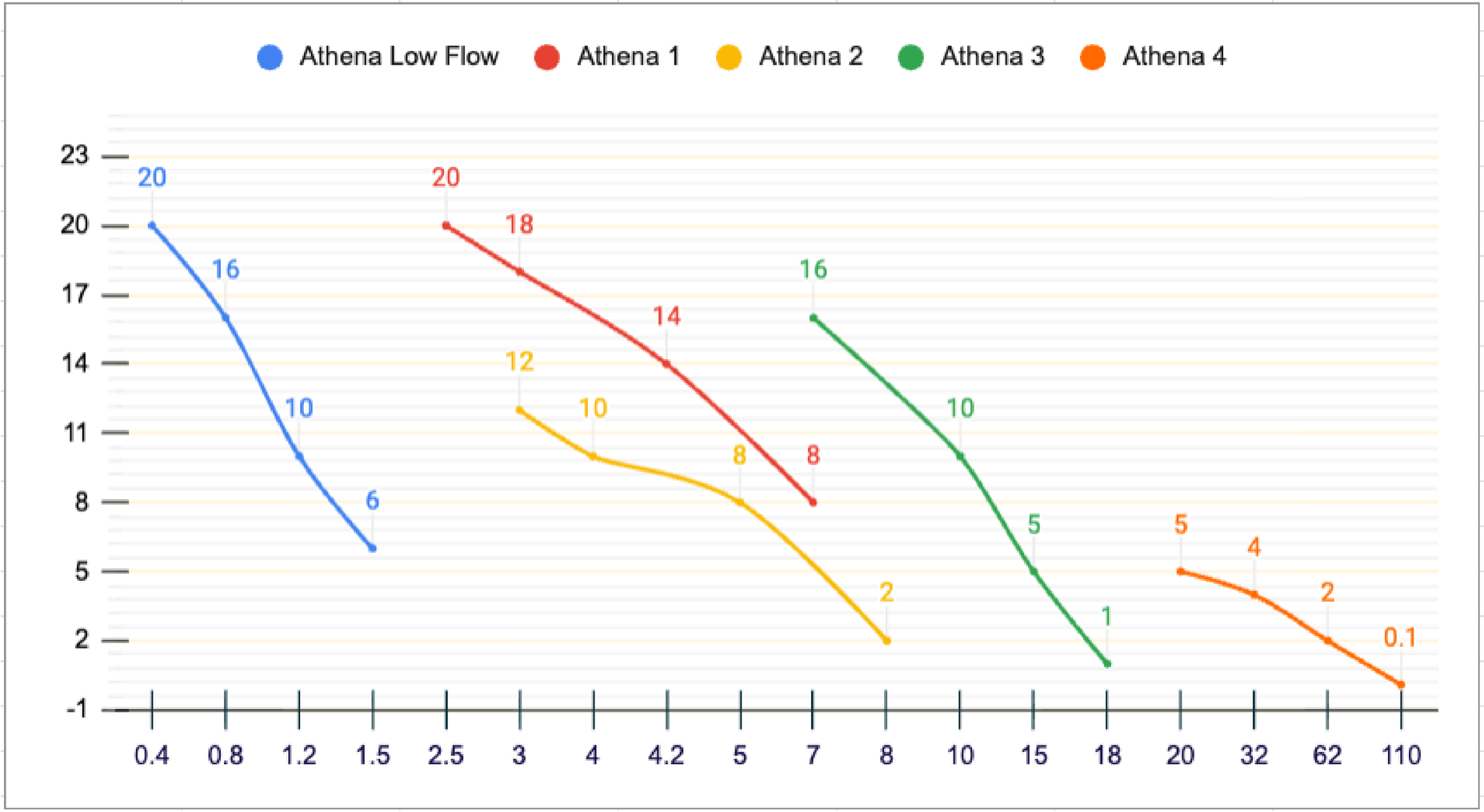
Diaphragm

- The pure PTFE diaphragm is suitable for an extremely wide range of chemicals
- All diaphragms have been tested for a 5 years durability
- Periodical replacement is no more necessary





Flow rate curves





How the pump works

The ATHENA Series uses the principle of magnetic movement: impulses generated by the magnetare transmitted to the diaphragm which, in turn, pushes the fluid in a precise and controlled way.
Two non-return valves fitted with ceramic balls prevent backflow, ensuring safety and reliability.
Dosing capacity can be easily adjusted by varying the impulse frequency through the potentiometer, allowing precise control in any application.

Applications and use

Athena pumps represent one of the most versatile solutions for chemical dosing, suitable for a wide range of industries:

1. Electroplating industry
2. Drinking water treatment
3. Reverse Osmosis
4. Paper and ceramic industries
5. Wastewater treatment

Advantages

1 Minimal maintenance

Thanks to the movement of a single moving part, mechanical wear is virtually non-existent. No lubricated parts are required, resulting in reduced operating costs and maintenance interventions.

2 High performance

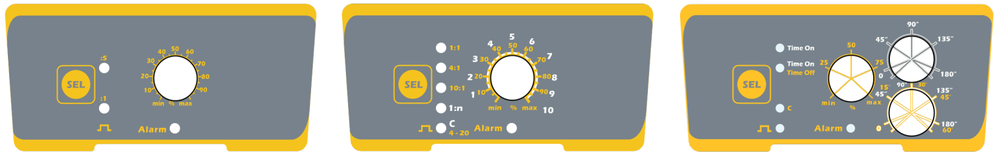
Designed for continuous operation, the ATHENA series pumps guarantee reliability and consistent performance over time, even under heavy-duty operating conditions.

3 Chemical compatibility

The PTFE diaphragm and PVDF pump heads ensure the safe handling of a wide variety of chemicals, maintaining optimal performance and extending component lifespan.

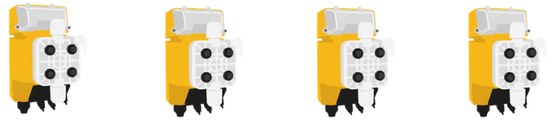
Models

ANALOGUE VERSION



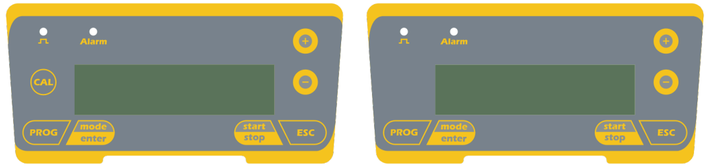
- ADJUSTABLE FLOW RATE through a knob on the front panel
- POWER-ON and LEVEL ALARM LED

Available models



BX **BL** **AM** **AIR COND**

DIGITAL VERSION



- LCD BACK-LIT DISPLAY (2 lines x 16 characters)
- PROGRAMMING AND WORKING in 5 selectable languages
- Possibility to create a SECURE PASSWORD
- Predisposed for FLOW SENSOR
- VISUALISATION OF OPERATING STATISTICS / ALARM REPETITION RELAY

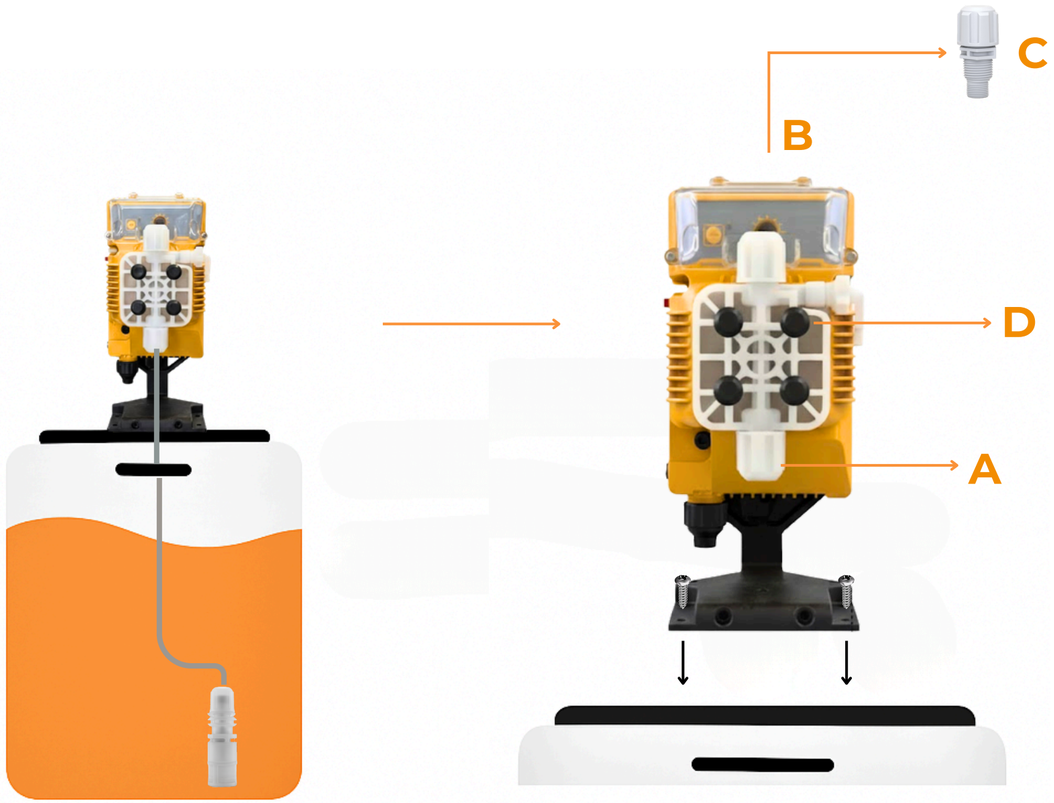
Available models



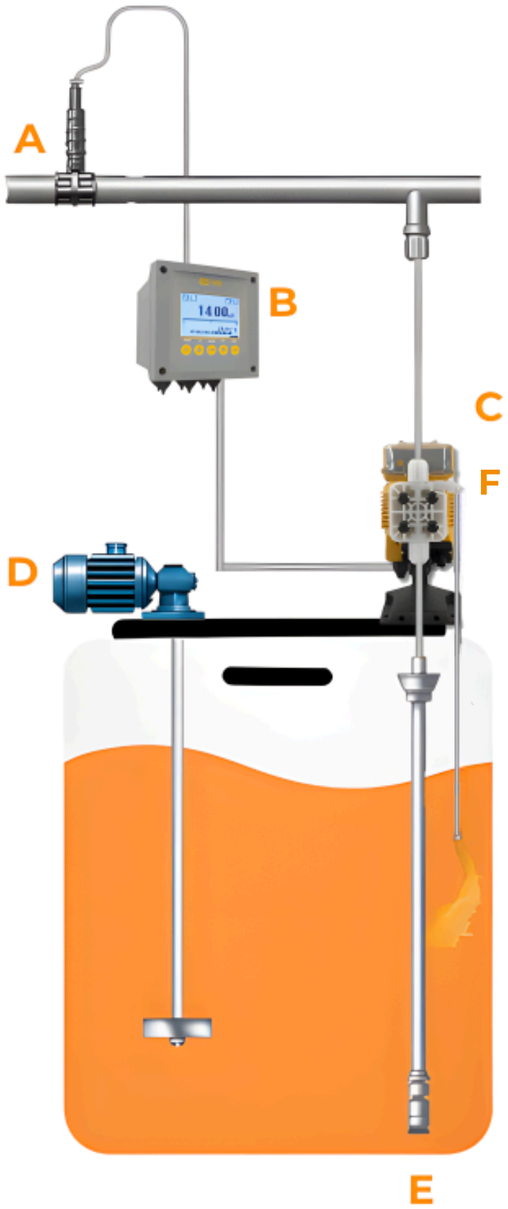
MT **BT** **PR** **MP**

Installation examples

ON-OFF DOSING



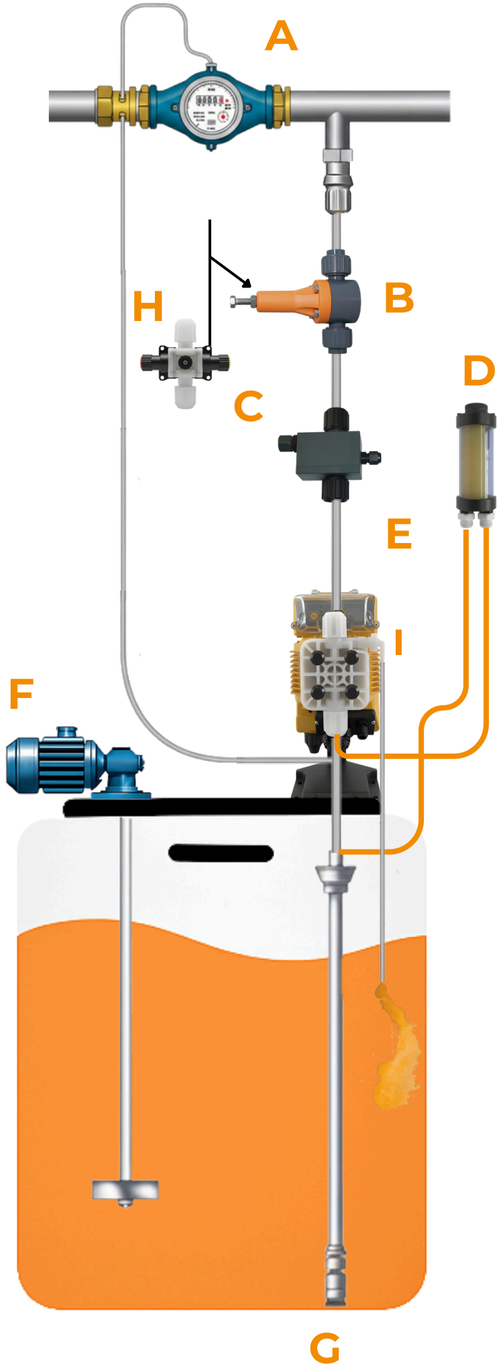
A. Suction fitting
B. Delivery tube
C. Injection valve
D. Outlet fitting
E. Foot filter



Installation examples

PROPORTIONAL DOSING TO A MEASUREMENT

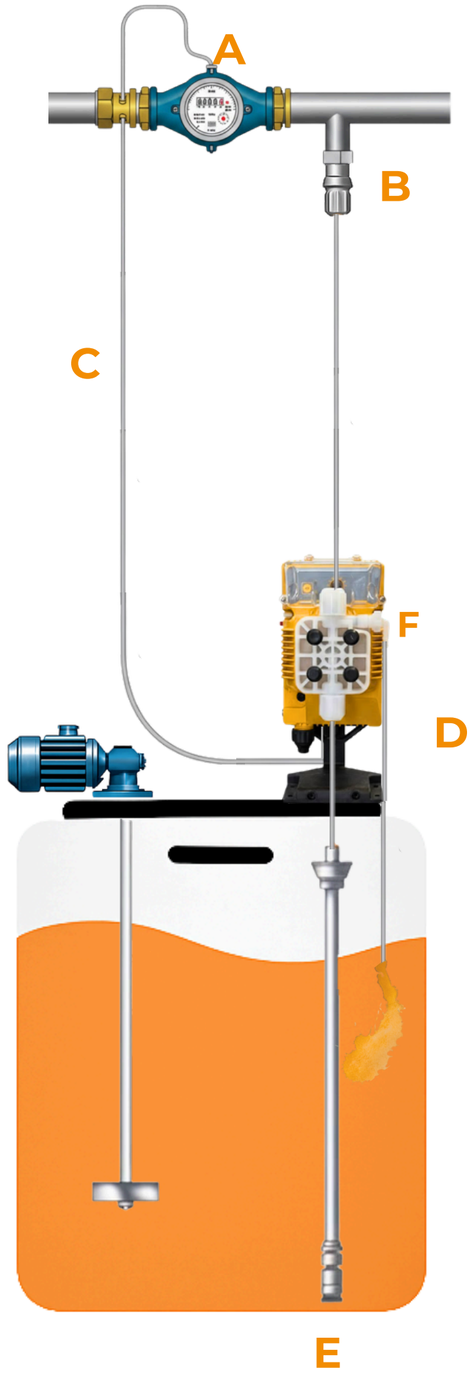
A. In-line probe holder
B. Control system
C. Athena AM dosing pump
D. Mixer
E. Suction lance
F. Drain valve



Installation examples

EQUIPPED WITH MIXER AND SAFETY DEVICES

A. Pulse-emitting water meter
B. Back pressure valve
C. Flow sensor
D. Priming aid
E. Athena AM dosing pump
F. Mixer
G. Suction lance
H. Multifunction valve
I. Drain Valve



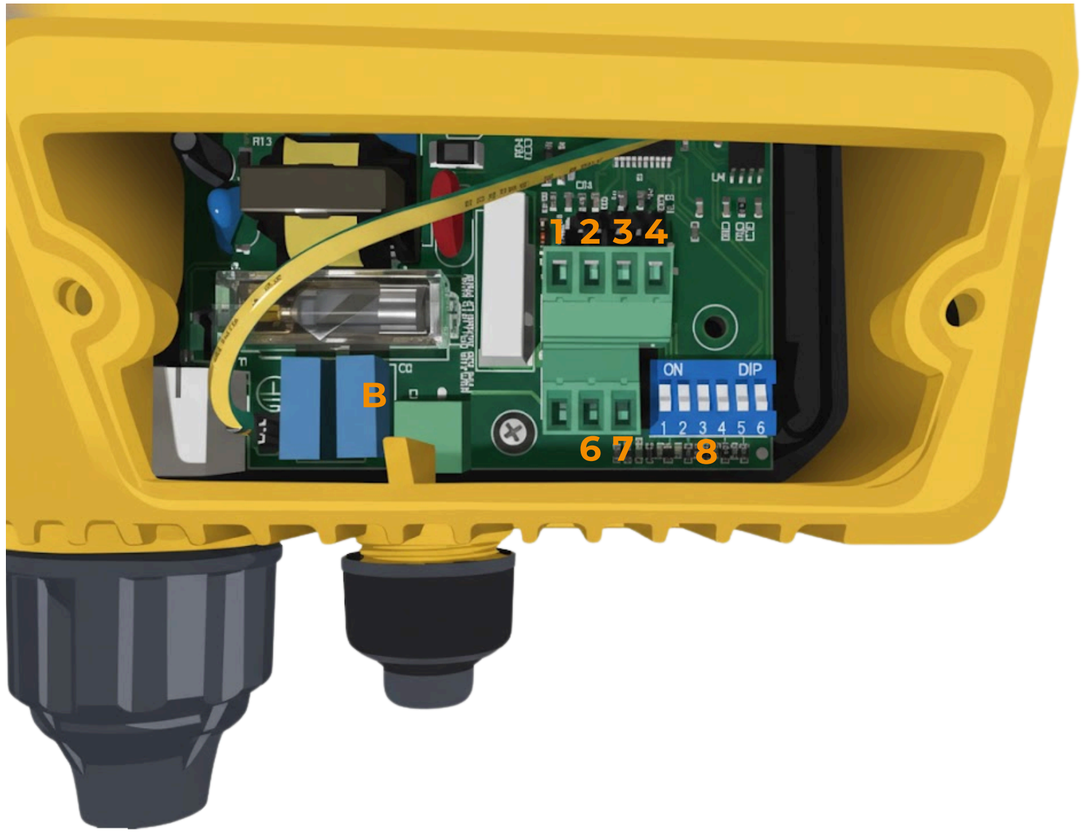
Installation examples

PULSE-EMITTING WATER METER

A. Pulse-emitting water meter
B. Injection valve
C. Meter cable
D. Priming tube
E. Suction lance
F. Drain Valve

Installation examples

ELECTRICAL CONNECTIONS



1 **2**	Relay Alarm	
3 **4**	Polo - Polo +	Signal input 4-20 mA
6 **7**	In frequency signal imput, free contact (water meter)	
8	Dip-switch	
B	Level probe input or flow sensor	

Installation Kits

	PVDF 4X6	PVDF 8X12
PVC (4M)	✓	✓
PE (2M)	✓	✓
Foot filter with non-return valve	✓	✓
Injection Valve	1/2" 3/8"	1/2"
Wall mounting bracket and fixing screws	✓	✓
Level probe connector*	✓	✓

*not available with BX model

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