

# Water Treatment



## ATHENA AM

### ELECTROMAGNETIC DOSING PUMPS



## Main characteristics

- PVDF PUMP HEAD suitable for chemicals used in Industrial, Waste Water Treatment and Potable Water applications
- CERAMIC BALLS. Full chemical compatibility
- PTFE DIAPHRAGM unique life expectancy and compatibility with most chemicals
- STEADY DOSING Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption
- QUICK CONNECTIONS
- MANUAL PRIMING VALVE
- IP65 PROTECTION
- ADJUSTABLE FLOW RATE by a regulation knob on the Front Panel
- POWER-ON and LEVEL ALARM LED
- ANALOGUE WITH PROPORTIONAL FLOW
- Proportional dosing to an external 4/20mA signal
- Possibility to multiply or divide the impulses received by a pulse emitter water meter
- Possibility to regulate in percentage the maximum flow with an analog signal (4÷20 mA)
- Manual flow regulation 0÷100 %
- Level probe predisposition
- Anti-seepage system

# Water Treatment

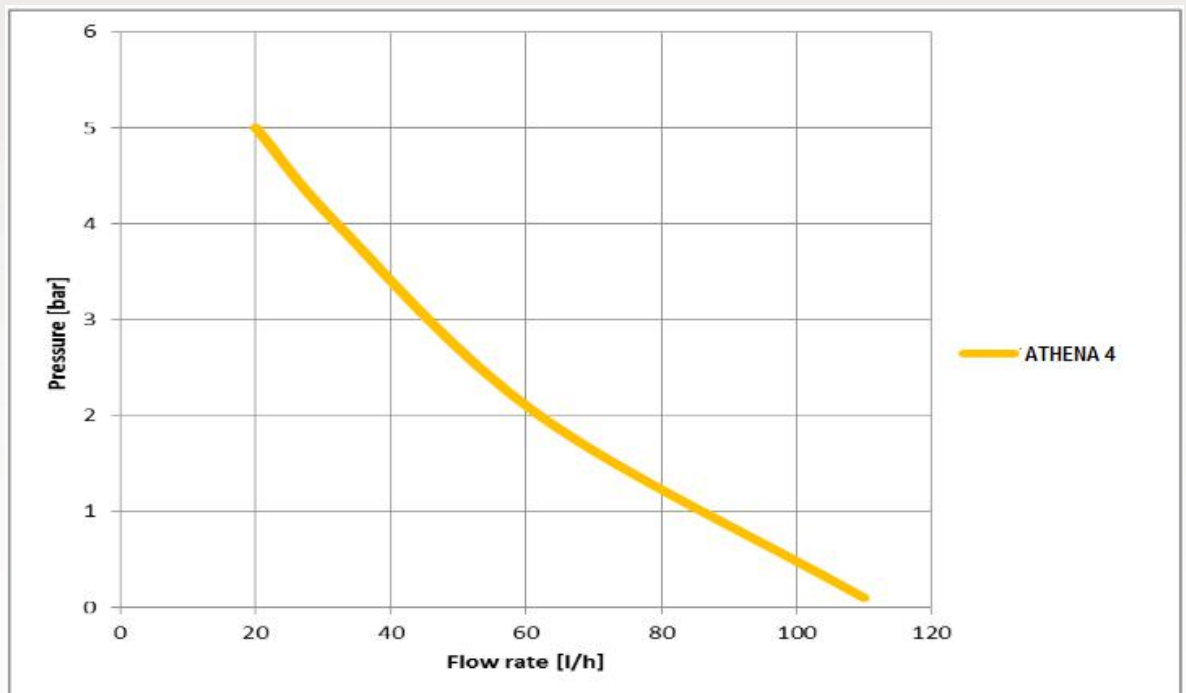
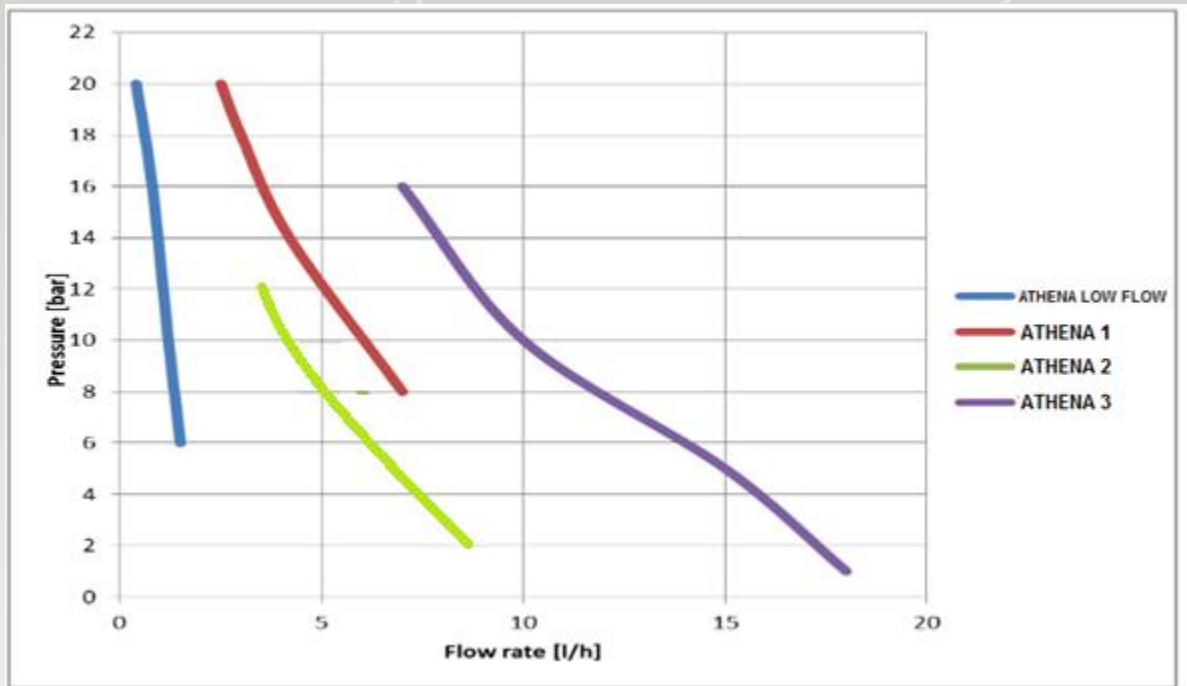


## Athena – Performance data

PERFORMANCES TEST HAS BEEN DONE AT ROOM TEMPERATURE, WITH WATER, AT 1,5 mt SUCTION HEIGHT

FLOW RATES	PRESSURES	CC/IMP.	CONNECTIONS	STROKES/MIN.	CONSUMPTION	WEIGHT	MODEL
0,4 l/h	20 bar	0,06	4x6 - 4x7	120	14 watt	3 kg	<b>Athena low flow</b>
0,8 l/h	16 bar	0,11	4x6 - 4x7	120	14 watt	3 kg	
1,2 l/h	10 bar	0,16	4x6 - 4x7	120	14 watt	3 kg	
1,5 l/h	6 bar	0,21	4x6 - 4x7	120	14 watt	3 kg	
2,5 l/h	20 bar	0,35	4x6 - 4x7	120	14 watt	3 kg	<b>Athena 1</b>
3 l/h	18 bar	0,42	4x6 - 4x7	120	14 watt	3 kg	
4,2 l/h	14 bar	0,58	4x6 - 4x7	120	14 watt	3 kg	
7 l/h	8 bar	0,97	4x6 - 4x7	120	14 watt	3 kg	
3 l/h	12 bar	0,31	4x6	160	20 watt	3 kg	<b>Athena 2</b>
4 l/h	10 bar	0,42	4x6	160	20 watt	3 kg	
5 l/h	8 bar	0,52	4x6	160	20 watt	3 kg	
8 l/h	2 bar	0,83	4x6	160	20 watt	3 kg	
7 l/h	16 bar	0,39	4x6	300	40 watt	4 kg	<b>Athena 3</b>
10 l/h	10 bar	0,56	4x6	300	40 watt	4 kg	
15 l/h	5 bar	0,83	4x6	300	40 watt	4 kg	
18 l/h	1 bar	1,00	4x6	300	40 watt	4 kg	
20 l/h	5 bar	1,11	8x12	300	40 watt	4 kg	<b>Athena 4</b>
32 l/h	4 bar	1,78	8x12	300	40 watt	4 kg	
62 l/h	2 bar	3,44	8x12	300	40 watt	4 kg	
110 l/h	0,1 bar	6,11	8x12	300	40 watt	4 kg	

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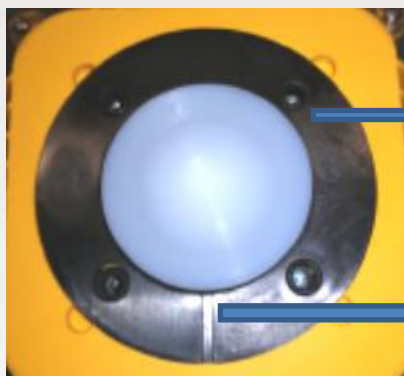


## Anti-seepage system

The anti-seepage system, is a solution to prevent the intrusion of chemical product inside the pump: leakage and chemical intrusion can happen when the O-ring is damaged or consumed by regular use.

This device is integrated in the hydraulic part, between pump head and body, behind the diaphragm: the outgoing collection channel of the anti-seepage device (see below blue arrow) collects the leakage and expel it out.

When the leakage is visible, the operator can proceed either tightening the 4 bolts of the head (4Nm torque) or disassembling the head and inspect it in order to understand leakage causes .



Anti-seepage device

collection channel

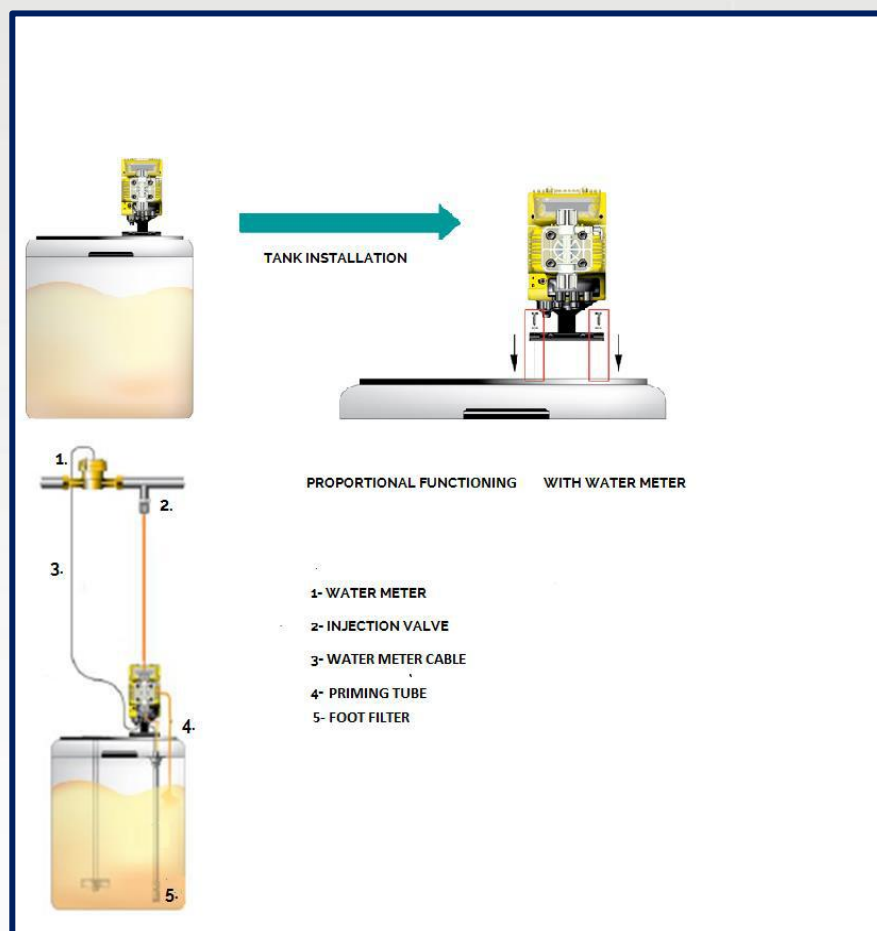
# Water Treatment



## Main applications

- Electroplating industry, Pickling, Degreasing and metal treatment
- Cooling Tower
- Potable water
- Reverse osmosis
- Paper industry
- Ceramic industry

## Example of installation



# Water Treatment



## Installation kit



## Accessories

### AC.VSA (ATHENA.1 .2 .3)



- PvdF Pump head with automatic bleed valve
- Flow reduction, according to the quantity of air in the liquid

### AC.VM PVDF



- Multifunction valve, antisiphon, backpressure, safety
- PVDF body, PTFE membrane
- Adjustable Pressure 0-5 bar • Relief Pressure 0-18 bar

### AC.SF



- Flow sensor
- FPM Seals
- 4x6 / 8x12 connections

### AC.SL



- Floating level probe with bipolar cable (2 mt) with support

### AC.ST



- Horizontal base mounting bracket

### PRIMING AID

### Capacity



- Capacity: 300 ml
- PVC Body
- FPM seals
- Connection: 4x6mm-8x12mm

### AC.VIE



- Extractable injection valve PVC 1/2" g.m. IN - 1/2" g.m. OUT



- Extractable injection valve with ball valve PVC 1/2" g.m. IN - 1/2" g.m. OUT

### AC.VS

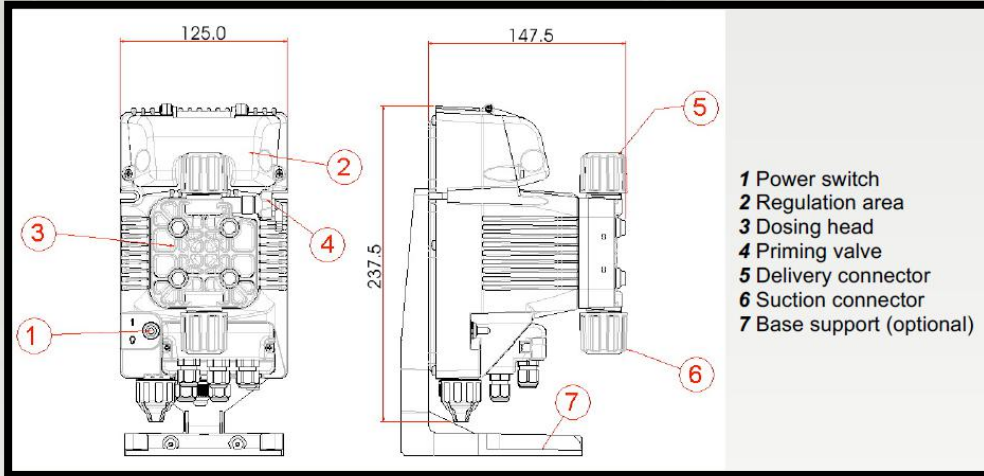


- Back-pressure valve up to 10 bar
- PTFE diaphragm

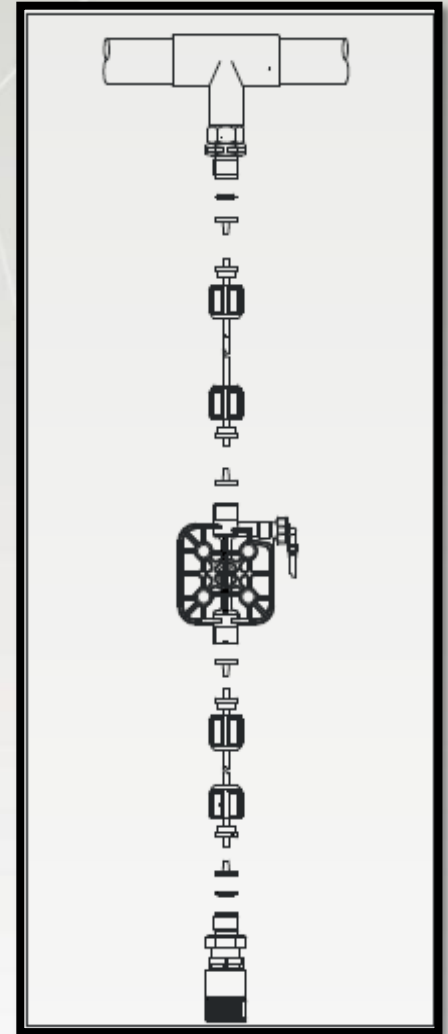
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## Dimensional drawings



## Plumbing



## Fixing templates

