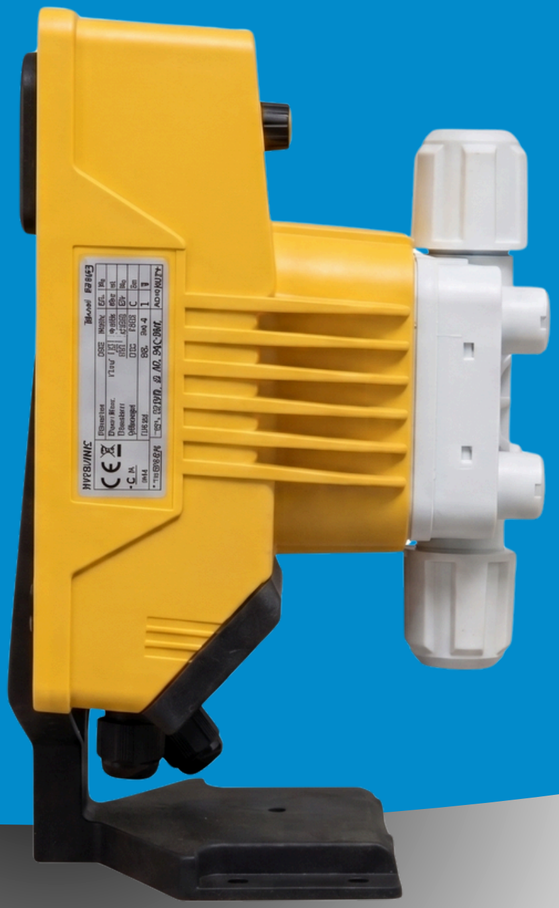
# HYDRA





# SERIES

INJECTA
the perfect dosing

Electromagnetic pumps

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# General features

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

## 1 Performance

High performance and versatility in precision dosing

## 2 Flow Rate

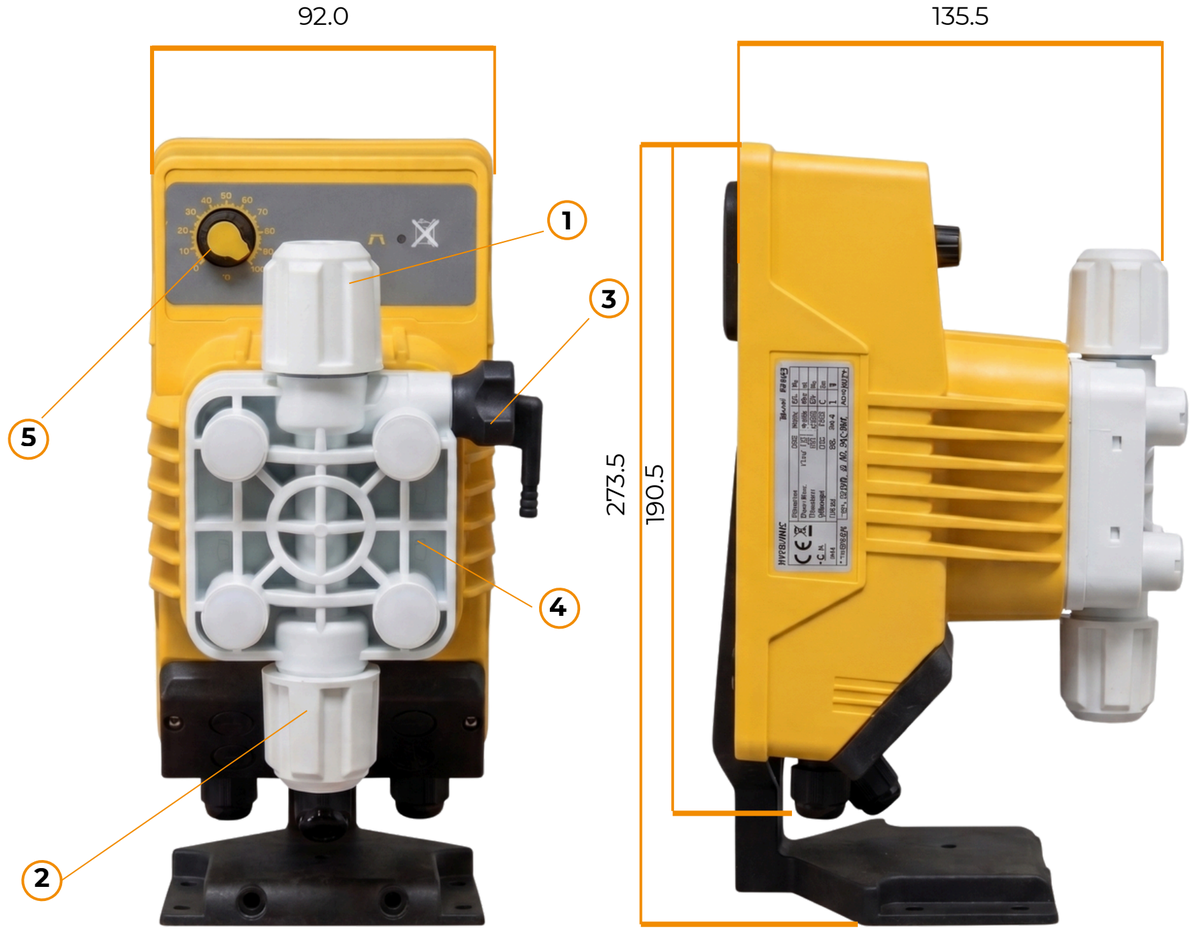
Models flow range: from 5 l/h to 3 l/h

Pressure: from 8 to 10 bar

## 3 High-Quality Materials

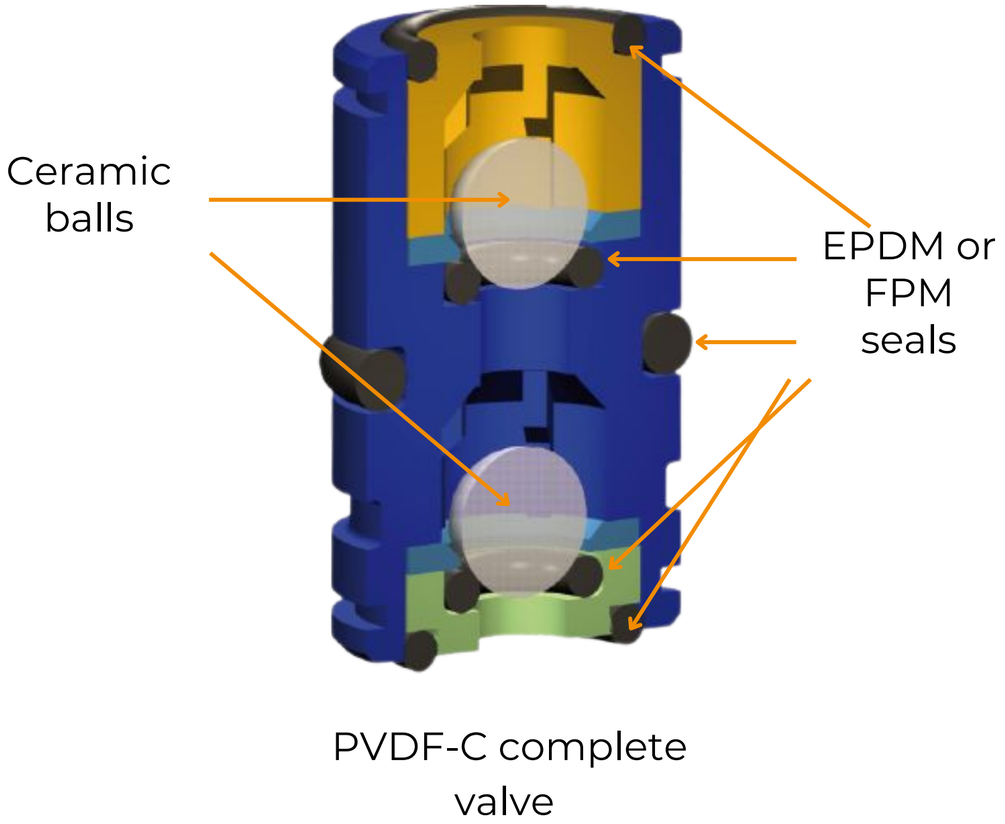
- PVDF pump head for high compatibility with most chemicals
- Ceramic balls
- PTFE diaphragm with a lifespan of up to 5 years

# Dimensions and Components

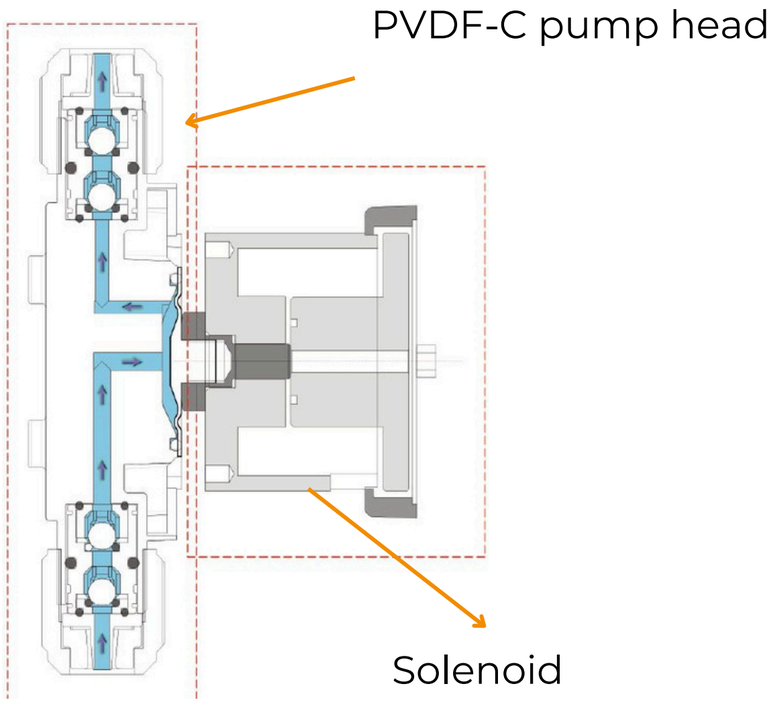



1. Inlet valve with double ceramic balls
2. Outlet valve with double ceramic balls
3. Manual priming valve
4. Pump head in PVDF-C
5. Frequency adjustment knob

# Hydraulic features



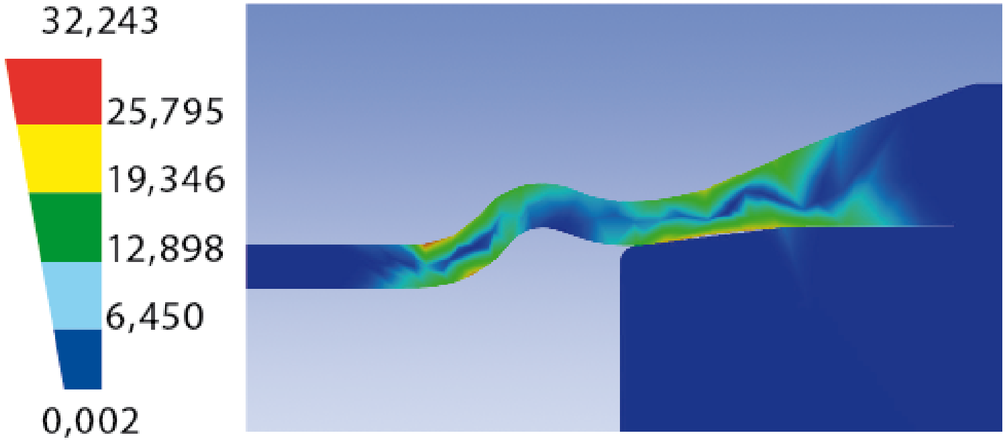

PVDF-C complete valve



# 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





# Pump Operation



The pump operates on the principle of magnetic movement.
The magnet receives electrical impulses from the circuit and transmits a reciprocating motion to the diaphragm inside the pump head.
Two non-return valves prevent the chemical from flowing back during the pumping process.
The flow rate of the HYDRA electromagnetic dosing pump can be adjusted by regulating the pulse frequency.

# Applications and use

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

1. Drinking Water Treatment
2. Cooling Towers
3. Reverse Osmosis
4. Paper and Plastic Industry
5. Wastewater Treatment

# Models

## ANALOGUE VERSION




### Available models



**BX** **BL** **BC**

**BX**

- Constant flow analog electromagnetic dosing pump, with flow rate adjustment via a knob located on the front panel
- Operating LED indicator

**BL**

- Constant flow analog electromagnetic dosing pump, with flow rate adjustment via a knob located on the front panel
- 2 flow rate ranges: 0÷20% with the selector in position P; 0÷100% with the selector in position C, Internal microswitch.
- Operating LED indicator and provision for level probe

**BC**

- Analog electromagnetic dosing pump with constant flow, manually adjustable, and proportional to a digital signal (e.g., pulse-emitting water meter)
- Operating LED indicator and provision for level probe
- 2 operating modes: CONSTANT (selector in position C): the pump provides constant dosing, delivering based on the percentage selected via the potentiometer. PROPORTIONAL (selector in position P): the pump doses proportionally to a digital signal (division mode 4=n)

# Models

## DIGITAL VERSION







### Available models



**PR**



**MT**

**PR**

- Digital electromagnetic dosing pump with manually adjustable flow rate and proportional dosing based on pH measurement or ORP value. Temperature compensation
- PT100 temperature probe (on request)
- ON-OFF input (with remote control)

**MT**

- Digital electromagnetic dosing pump with constant and proportional dosing via an external analog signal (0/4÷20 mA or 20÷4/0 mA) or a digital signal (water level, voltage signal)
- Timed dosing via a weekly programmable timer
- ppm dosing
- Batch dosing
- Statistics
- Password protection
- Remote ON/OFF signal

# Installation Kits

## PVDF 4X6

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

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