

PreciDuo
Two-component volumetric dispenser



Volumetric dispensing system manufacture
www.precifluid.com – contact@precifluid.com

Two-component volumetric dispenser

Advantages

- Continuous Volumetric dispensing
- No variations with viscosity changes
- Linear movement and pulsation-free
- Dispensing speed rate programmable
- Manual / Automatic modes
- Two-component 50ml cartridge with rectangular base (ratio to define at the order)

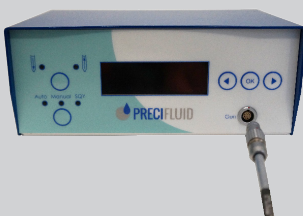


Presentation

The Preciduo is a volumetric dispenser for two-component materials packaged in 50ml cartridges. It is compatible with all kind of fluids from the more liquid to the more viscous. This dispenser combines speed and accuracy while its use remains simple.

By the action of a step by step motor that performs the positive displacement, in a controlled and repetitive way, it dispenses a given volume of product. This equipment goes beyond the limits and performances of a pneumatic dispensing system. This dispenser is the only one allowing you to perform a volumetric dispensing from a 50ml two-component cartridge.

Designed and manufactured in France, its electromechanical movement guarantees an unmatched accuracy regardless of the variations of viscosity of the fluids dispensed. It also offers a high capacity of pushing force going up to 500 000 cps, thanks to a multiplication of the torque.



Characteristics



Needles

- From 14G to 32G
- Standard colors
- Free silicone certified



Luer Lock Adaptor

- For mounting on static mixer with stairway outlet.



Static Mixers



Barrel

- 50 ML



Pistons



PreciDuo Gun

The system of linear dispensing is equipped with a step by step motor and an endless screw. It guarantees a positive displacement (forward and backward) identical for each application, until the cartridge is empty. Stability is the most important factor for a constant and accurate fluid

How does it work ?

The micro-drive system works by moving a linear stepper motor, leading to the movement of the product contained inside the cartridge. Thus, unlike the pneumatic dispensers operated by the air pressure, the Preciduo – the two-component volumetric dispenser – optimizes the dispensing in terms of accuracy and repeatability.

In addition to its performance, its use remains very instinctive. Thanks to of previously recorded programs, its shots are regular and constants. You only need to set digitally on the controller the number of steps the motor will make and the dispensing speed rate desired. There is no more need to adapt the settings to the temperature and surrounding conditions.

The cartridge attachment system is fast and tool-free.

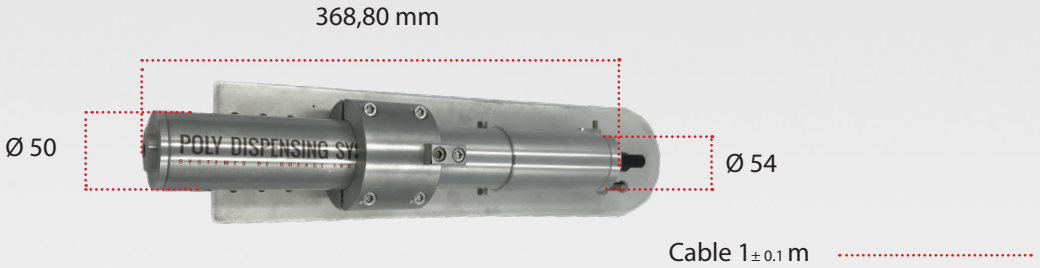
The equipment can operate in three modes :

- **Manual** : As long as the cycle is activated by the foot pedal or by a closed contact, the device dispenses at a set speed.
- **Automatic** : At each impulse (foot pedal or PLC contact) the PreciDuo dispenses according to the registered active program settings.
- **Sequential** : This mode is a succession of programs (different or identical) spaced by a selectable period of time.

At the end of the dispense, it is possible to set the retract of the push rods to stop the flow of the fluid.

For high viscosity product, we offer an option of anti-dripping valve connected directly to the static mixer, to get a clean cut at the end of the dispense.

Two-component PreciDuo Gun



Controller



CHARACTERISTICS

Suitable for Two-component Mixpac cartridges of 50ml with rectangular base

Available in four versions, in the following ratios : 1 :1 – 2 :1 – 4 :1 – 10 :1

Pushing force can go up to 500 000 cps, under request

Instinctive use

Programmable sequences

Robust aluminium design

Weight : 2kg200

Available in 4 versions : 1:1 - 2:1 - 4:1 - 10:1

Dispensing in steps from 1 to 68 500

Dispensing rate : 1 to 1 000 steps/sec

Automatic Retract : 1 to 5 000 steps

Retract catch up: automatic

Connection DropGun to Controller : LEMO cable

Time alarm available