

## PreciFluid Easy Volumetric Dispensing System



**PRECIFLUID**  
easy

Volumetric dispensing system manufacture  
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## Volumetric Dispenser PreciFluid Easy

### Advantages

- Constant volumetric dispensing
- Fully electric, no need of compressed air
- Easy to set up : choose the size of the DropGun, the volume (cc), the speed rate (cc/sec) and then start the dispensing process.
- Available in 3cc, 5cc, 10cc, 30cc
- All-digital, multi-function & multilingual display
- Automatic or manual mode



### Presentation

Based on the patented technology of volumetric dispensing, the Precifluid Easy is an entry level product of the PRECIFLUID range.

The Precifluid Easy is insensitive to viscosity changes due to its electromechanical movement which ensures an optimal dispensing accuracy regardless of the conditions. It also offers an unmatched high pushing capacity going beyond 500,000 cps through torque multiplication.

By action of the step-by-step motor, a volume of fluid is dispensed in a repeatable and controlled way. This range goes beyond the pneumatic dispenser capacities and it is seven times more accurate.

This DropGun is manufactured and conceived in Switzerland and the control unit in France.



## Characteristics



### DropTips

- From 14G to 32G
- Standard colors
- Certified silicone free



### BarrelDrop

- Sizes : 3, 5, 10, 30cc
- U.V. barrier available
- Certified silicone free



### PistonDrop

- Metal insert
- Free dripping
- Perfect adjustment



### Dropring

- Sizes : 3, 5, 10, 30cc



### DropGun

The linear distribution system, equipped with step-by-step motor and an endless screw, that guarantees the same displacement for each dispense until the syringe is empty. Stability is the most important factor for constant fluid dispense.

## CHARACTERISTICS

Minimum volume 0.06  $\mu$ l

Maximum viscosity 500 000 cps

Instinctive use

Robust design in anodized aluminum

Weight less than 100 grams

Gun available : 3, 5, 10cc - 30cc

## Functions

Thanks to a high performance linear actuator, the PreciFluid easy® performs a linear progression of the piston in contact with the fluid. The screw activated by the step-by-step motor is highly precise and push the piston with the metal insert.

The system also offers a high pushing capacity going beyond 500,000 cps with a torque multiplication.

The dispensing cycle consists in the forward movement of the piston in a defined volume and speed.

The equipment can operate in two modes:

- **Manual:** As long as the cycle is activated by the foot pedal or finger switch it dispenses at a defined speed.
- **Automatic:** Each pulse ( foot pedal or PLC control finger contact) the dispenser performs a dispense following the set up parameters.

## 3 CC GUN SPECIFICATIONS



### SPECIFICATIONS

Size	3cc
Number of steps per revolution of the motor	20
Ratio of the gearbox	64
Screw size in mm	1
Forward screw [mm]	40
Linear displacement steps[mm]	0,000781
Section of the syringe [mm <sup>2</sup> ]	70.88
Usable volume max [cc]	2.84
Volume by steps [mm <sup>3</sup> ]	0.055
Volume by steps [cc]	0,000055

## 5 CC GUN SPECIFICATIONS



### SPECIFICATIONS

Size	5cc
Number of steps per revolution of the motor	20
Ratio of the gearbox	64
Screw size in mm]	1
Forward screw [mm]	30
Linear displacement steps[mm]	0,000781
Section of the syringe [mm <sup>2</sup> ]	124.69
Usable volume max [cc]	4.11
Volume by steps [mm <sup>3</sup> ]	0.097
Volume by steps [cc]	0,000097

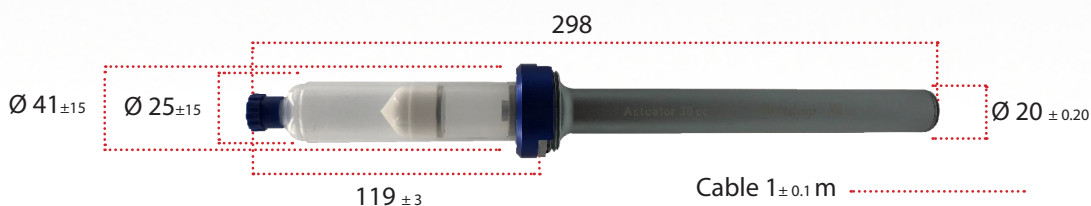
## 10 CC GUN SPECIFICATIONS



### SPECIFICATIONS

Size	10cc
Number of steps per revolution of the motor	24
Ratio of the gearbox	51.84
Screw size in mm	3
Forward screw [mm]	50
Linear displacement steps[mm]	0,002411
Section of the syringe [mm <sup>2</sup> ]	196.07
Usable volume max [cc]	9.80
Volume by steps [mm <sup>3</sup> ]	0.473
Volume by steps [cc]	0,000473

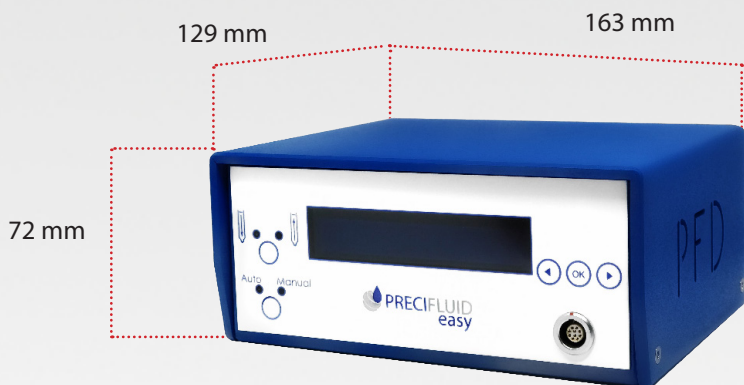
## 30 CC GUN SPECIFICATIONS



### SPECIFICATIONS

Size	30cc
Number of steps per revolution of the motor	24
Ratio of the gearbox	75.98
Screw size in mm]	4.24
Forward screw [mm]	70
Linear displacement steps[mm]	0
Section of the syringe [mm <sup>2</sup> ]	401.15
Usable volume max [cc] 2.84	28.08
Volume by steps [mm <sup>3</sup> ]	0.933
Volume by steps [cc]	0,000933

## CONTROLLER SPECIFICATIONS



### SPECIFICATIONS

Dimensions Size L*I*H	163 x 129 x 72
Weight	500 g
Outer- power supply range of input voltages	110-240V
Maximum inrush current 2A	2A
Range of input frequencies	50-60Hz
Output Voltage	9V
Output Current	1,5A
Output power	13,5W
Control circuit	MSP430
Interface	Numeric keypad
Cycle start signal	Foot pedal or finger switch
Cycle signal	Static output