



PreciFluid Volumetric Dispensing System



Volumetric dispensing system manufacture
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Volumetric Dispenser PreciFluid

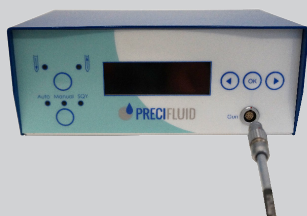
Advantages

- Fully electric, no compressed air
- Easy to set up : choose volume [cc], speed [cc/sec] and Vacuum if needed, than start with dispensing process. Other options are possible
- Available in syringes in 3cc, 5cc, 10cc, 30cc sizes , and more.
- Programmable pullback stops drooling
- All-digital, multi-function multilingual display



Presentation

The linear actuator allows the syringe's piston, directly united, to perform a defined distance. That distance combined to the container or syringe volume characteristics, represents a volume. That displaced volume is perfectly repeatable with greater accuracy than 1%.



Characteristics



DropTips

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



DropTube

- Suitable sizes
- Magnetic stabilization
- Aluminium body



BarrelDrop

- Sizes : 3, 5, 10, 30cc
- U.V. barrier available
- Free silicone certified



PistonDrop

- Metal washer
- Free dripping
- Straight wall



DropGun

The depositing cycle consists in the forward movement of the piston in a defined volume and speed, a parameterized mechanical drawback which performs a backward movement of the piston
PistonDrop.

CHARACTERISTICS

Available for 2.5oz cartridges on request

Magnetic coupling between the piston and the stepper motor screw

Volume minimum 0.06 µl

Viscosity maximum 500 000 cps

Friendly using

Available for 2.5oz cartridges on request

Programmable sequences

Robust design in anodized aluminum

Weight less than 100 grams

Available in 2 versions : Standard with controller or motor control card

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

Functions

Thanks to a high performance linear actuator, the PreciFluid® volumetric dispenser perform a linear progression of the piston in contact with the fluid. The screw activated by the step-by-step motor has a high precision machining and is linked to the piston thanks to a patented connection system.

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

The depositing cycle consists in the forward movement of the piston in a defined volume and speed, a parameterized mechanical drawback which performs a backward movement of the piston PistonDrop.

A pause can be programmed between the forward and the backward movement.

Working delay can be programmed in order to be alerted at the end of the process (for example, this can be useful during the application of a two-component product with a limited operating time).

The equipment can operate in three modes:

- **Manual:** As long as the cycle is activated by the pedal or switch, the machine table dispense at a defined speed. When it stopped, a drawback can be programmed.
- **Automatic:** Each pulse (pedal or PLC control finger contact) the dispenser performs a deposition as the saved settings of the active program
- **Sequences:** A sequence is a series of programs (same or different) spaced at a programmable time.



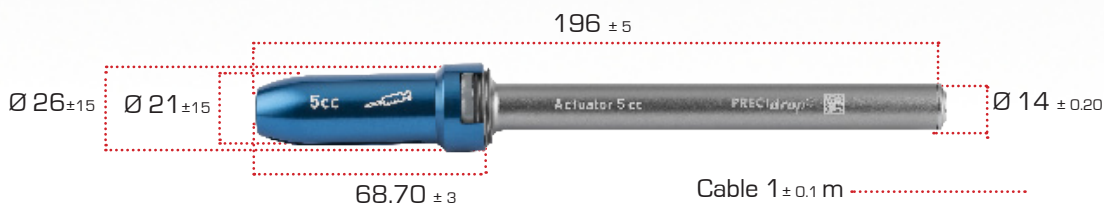
3 CC GUN SPECIFICATIONS



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 ²]	70.88
Usable volume max [cc] 2.84	2.84
Volume by steps [mm ³]	0.057
Volume by steps [cc]	0,000057

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 ²]	124.69
Usable volume max [cc] 2.84	4.11
Volume by steps [mm ³]	0.10
Volume by steps [cc]	0,00010

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]	0,00181
Section of the syringe [mm ²]	196.07
Usable volume max [cc]	2.84
Volume by steps [mm ³]	0.36
Volume by steps [cc]	0,00036

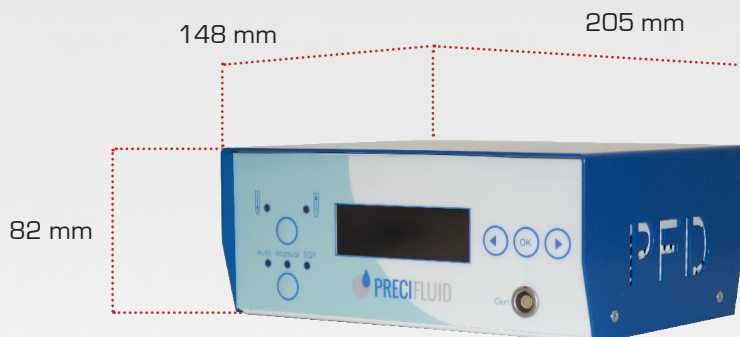
30 CC GUN SPECIFICATIONS



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]	0,00233
Section of the syringe [mm ²]	401.15
Usable volume max [cc]	2.84
Volume by steps [mm ³]	0.930
Volume by steps [cc]	0,000930

CONTROLLER SPECIFICATIONS



SPECIFICATIONS

Dimensions Size L*I*H	205 x 148 x 82
Weight	1,47 Kg
Outer- power supply range of input voltages	100-240V
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	Pedal, Command finger switch finger
Cycle signal	Dry contact - duration 500ms