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# DISPENSERS

Volumetric and pneumatic systems

# PRECIFLUID CONCEPT

## FEATURES

Adaptable to 2.5 oz cartridges on demand

Resistant fixing of the screw step by step using a magnetic system

Minimum volume is going until 0.06 micro liters

Pushing capacity is going higher than 500,000 cps

Instinctive use

Programmable sequences

Solid conception in anodized aluminum

Weights less than 100gr

Exists in 3 types: Standard – Integration Kit

Exists in 3 versions: 3.5, 10cc – 30cc – 55cc

All PreciFluid consumables are provided



## PRESENTATION

PreciFluid is a high developed technology offering quality dispensing. This volumetric dispenser which is compatible with all types of fluids (from the most liquid to the most viscous types) combines speed and accuracy while keeping a simple and ergonomic structure.

By the motion of a stepping motor which performs a repetitive and controlled movement of a volume, this range goes beyond expectations in terms of pneumatic dispensing systems (at least 7 times more accurate) and allows remarkably more little deposits than volumetric dispensers

available on the market, with its minimum volume starting at 0.06 micro liters. This patented dispenser is the only one which guarantees you a volumetric deposit with such accuracy.

Designed and manufactured in Switzerland by PRECI FLUID DISPENSING, the electro-mechanic motion of PreciFluid guarantees an accuracy record regardless the viscous variations of the dispensed fluid.

PreciFluid provides you also a high pushing capacity going beyond 500.000 cps thanks to the torque multiplication.

- Consistent volumetric dispensing
- Compensation of the viscous variations
- Regular and smooth linear movement
- No separation of complex fluids
- Programmable dispensing speed
- Manual ergonomic/automatic gun
- Patented system

## PRECIFLUID : FEATURES

### DropTips Needles

- Size from 14G to 32G
- Coded and colored nozzles
- Silicone free certified

### DropTube Holster

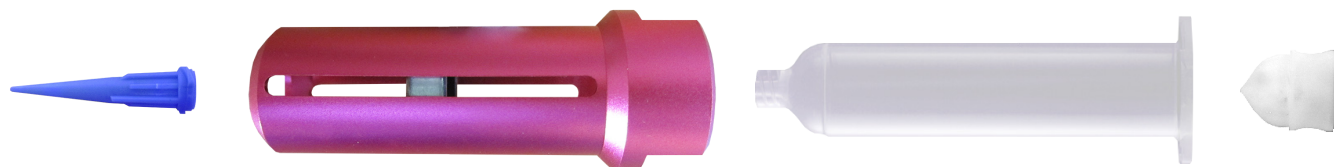
- Adaptable size
- Stabilization magnet
- Aluminum Conception

### BarrelDrop Syringes

- Sizes: 3, 5, 10, 30cc
- UV protection
- Certified Silicone free

### PistonDrop Piston

- Magnetic holding
- Without dripping
- Straight walls



### PreciFluid Guns

The system of linear distribution with a stepping motor and a magnetic feeding augur guarantees an identical movement (forward, backward) for each deposit until the syringe is empty. Stability is the most important factor to get a consistent deposit of the fluid.



### FEATURES

Command	Manual/Pedal/PLC
Minimal deposit	0.06micro liters
Gun length	170 mm
Gun weight	< 100 gr

### OPERATING

The micro-drive system operates with a linear stepping motor which generates a consistent movement of the product in the syringe.

In comparison to pneumatic dispenser which operates with air pressure, the deposit of the PreciFluid volumetric dispenser is controlled and more efficient in terms of accuracy, speed and repetition.

Moreover the outstanding performances, the use of PreciFluid remains instinctive. Sequenced by already registered programs, the push actions are regular and consistent. You only have to

numerically introduce the volume and the speed to perform the dispensing. The dispenser will make the calculations. There is no need to adjust the entries in function of the temperature and the place of dispensing conditions.

Enter numerically the volume, the requested speed of deposit and the dispenser will make the calculations.

PreciFluid is provided with a revolutionary attach system. The screw and the piston are fixed with a magnet which offers an optimal stability and push action, without any risk of shocks or warming-up of the fluid.

- No separation or warming-up
- No shocks or pressured air
- Consistent and regular pushing
- Optimal repetitiveness
- Certified without silicone
- Maximal flexibility
- Adaptable to all fluids

## PRECIFLUID : ACCESSORIES

### Gun Device

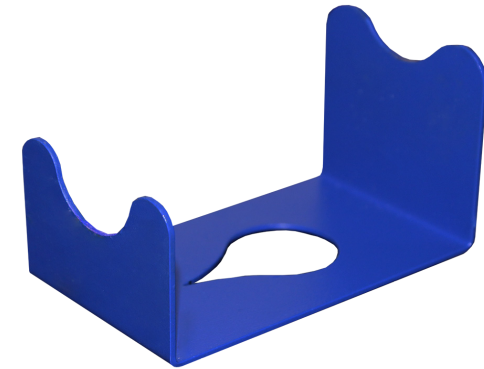
PreciFluid device is easy to handle and give an ergonomic use of the gun possible which is easier for its use. Completely manufactured in aluminum

### DropTube holder

The holder closes strongly the syringe on the gun. They exist in 3, 5, 10 and 30cc but they are adaptable on demand in case you have specific contents.

### BarrelDrop Syringes

Developed for high performances, the syringes with a round nozzle are available in 3, 5, 10 and 30cc. They are certified without silicone and are available in black or brown to protect from UV.



More accessories and consumables at : [www.polydispensing.com](http://www.polydispensing.com)

## CONSUMABLES

### DropTips Needles

The DropTips needles are certified without silicone and are conform to industrial demands, which is an important item for accurate dispensing. They are strongly fixed on the syringe thanks to an easy LuerLock screwing. Available diameters from 14G to 32G.

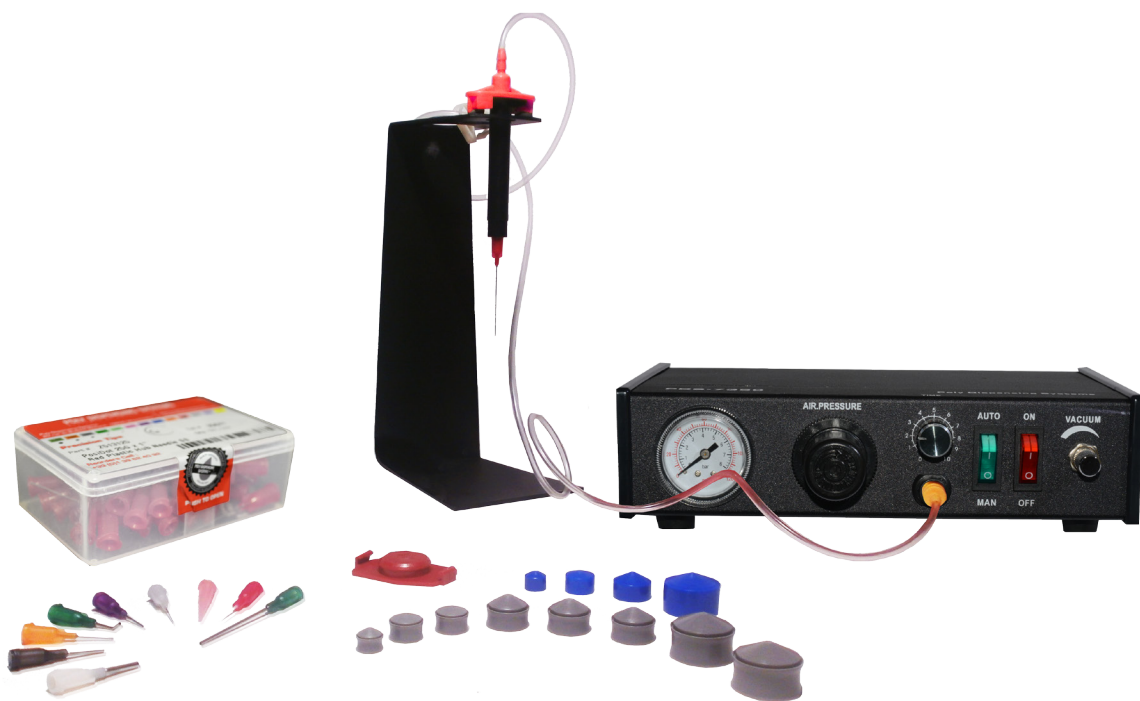
### PistonDrop Pistons

In opposition with standard pistons, the PistonDrop pistons with metallic inserts are moulded with accuracy in order to obtain a regular flow and a uniform movement. However, these are equipped with a metal nozzle which guarantees a fixation with the magnetic screw of the gun.

### FingerDrop Command

The FingerDrop interruptor replaces the pedal and is directly connected on the PreciFluid.

## AIR - PULSE CONCEPT



### PRESENTATION

The electro-pneumatic dispensers are recommended for a consistent deposit of liquid products, fluids or pastes of any kind, and this repetitively and calibrated.

The universal dispensers Air-Pulse exist in version 0-1 Bar for very liquid products and in 0-7 Bar for any other product.

They are equipped with a precise adjustment to get a consistent debit of the product and an

adjustment of dispensing time from 0.01s to 60s.

In a syringe, a constant pressure during a given time, makes it possible to deliver repetitively a quantity of product by a simple impulsion on the pedal or the push button.

A venture system (vacuum) makes it possible to maintain the product in suspension in the syringe.

USE	7050	7150	7250	7350	100ETC
Thick paste	NA	++	++	++	++
Fluid to a liquid product	NA	++	++	++	++
Cyanoacrylate liquid	NA	+	+	+	+
Solder paste	NA	++	+	++	+
Bi-components	NA	++	++	++	++
Resins, charged products	NA	+	++	+	++
Micro dots	NA	++	++	++	++
Potting and filling	NA	+	+	+	+
Mixed and frozen product	NA	++	++	++	+

BASE CONTENT	7050	7150	7250	7350	100ETC
Foot pedal	++	++	++	++	++
Manual	++	++	++	++	++
Venturi	++	++	++	++	++
Mixer	NA	0	0	0	0
Needles kit	NA	++	++	++	++
Syringes and pistons kit	NA	++	++	++	++
Syringe adapter	NA	++	0	++	++
Regulating filter 5 microns	In option	0	0	0	0
Drying-regulating filter	In option	0	0	0	0
Holding system	++	NA	NA	NA	NA

# AIR - PULSE : DISPENSER 7050 TO 7550

## DISPENSER 7050 (PICK-UP)

The Pick-Up venturi systems are made in order to manipulate little pieces, small components, chips, etc. They are equipped with a vacuum-air valve which is electrically actioned with the pressure of the foot pedal.

### FEATURES

Material	Industrial metal box	Pressure Display	Venturi adjustment
Models	1.33 - 7 Bars		
Dimensions	13.9 x 17.7 x 6.6 cm		
Weight	1.14 kg		
Control	Pedal		
Air entry	20 - 100 psi		
AC entry	110 or 220 VAC		
Display	Pressure indicator	Pressure adjustment	Pick-Up

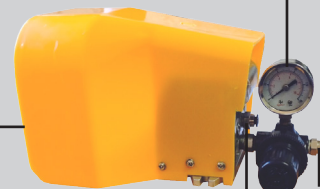


## DISPENSER PEDAL

Dispensers with pedal are built to dispense product quantities which are visible by the human eye. They deliver the fluid by a simple impulsion with the pedal which makes it able to reduce or prevent manual tiredness of the user.

### FEATURES

Material	Metal and plastic	Command pedal	Venturi adjustment
Models	0 - 7 Bar		
Dimensions	25.7 x 14.2 x 13		
Weight	1.38 kg		
Control	Pedal		
Air entry	100 psi		
AC entry	No		
Rate	NA	Pressure display	Gun entry



## AIR - PULSE : DISPENSER 7050 TO 7550

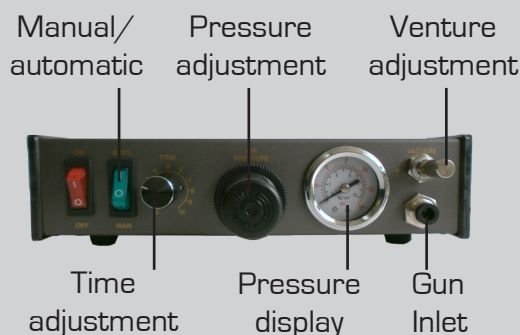
### DISPENSER 7250



The dispenser 7250 which only exists in 0-7 bar provides a time/pressure calibrated dispensing in more economic formats than the dispenser 7350 and is provided with a dispensing time in hundreds of seconds.

#### FEATURES

Material	Industrial metallic box
Models	0 - 7Bar
Dimensions	21.9 x 15.1 x 6.7 cm
Weight	1.82 kg
Control	Pedal
Air entry	7Bar
AC entry	110 - 220 VAC
Rate	500 cycles / minutes



### DISPENSER 7150

The dispenser 7150 exists in 0-1 bar version for very liquid products and in 0-7 bar for other products. The dispensing is auctioned by a pedal as "the operator judgement".



#### FEATURES

Material	Industrial metallic box
Models	0 - 7Bar and 0 - 1Bar
Dimensions	27 x 14.8 x 6.8 cm
Weight	1.38 kg
Control	Finger and pedal
Air entry	7Bar
AC entry	110 - 220 VAC
Rate	NA



# AIR - PULSE : DISPENSER 7050 TO 7550

## DISPENSER 7350

The calibrated time / pressure 7350 dispenser exists in version 0-1 bar, for highly liquid products, and 0-7 bar for other products. It is equipped by a MAC solenoid valve offering a constant flow rate and adjusting dispense time in hundreds of seconds.

### FEATURES

Material	Industrial metallic box	
Models	0 - 7 Bar and 0 - 1 Bar	
Dimensions	21.9 x 15.1 x 6.7 cm	
Weight	2.01 kg	
Control	Finger and pedal	
Air entry	7Bar	
AC entry	110 - 220 VAC	
Rate	More than 600 cycles/min	



## DISPENSER 100ETC

The 100ETC dispenser (digital) calibrated time / pressure exist in 0-1 bar and 0-7 bar. Equipped by a MAC solenoid valve offering a constant flow rate and adjusting dispense time in hundreds of seconds.

### FEATURES

Material	Industrial metallic box	
Screen	LED	
Models	0 - 7 Bar et 0 - 1 Bar	
Dimensions	21.9 x 15.1 x 6.7 cm	
Weight	1.68 kg	
Control	Finger and pedal	
Air entry	0 - 100 psi et 0 - 15 psi	
Cadences	More than 600 cycles/min	





## AIR - PULSE : DISPENSER 7050 TO 7550



### DISPENSER 7550

A dispenser and a Pick-Up in one. The dispenser 7550 time/pressure calibrated exists in 0-1 bar and in 0-7 bar. With its MAC solenoid valve, the dispenser makes it possible to dispense with accuracy very little quantities of products and simultaneously, it enables a movement of little pieces by aspiration (like the Pick-Up dispenser).

This double function enables you to gain time, money and place. They are delivered with a kit of starter consumables as well as an input pen.

#### ■ Dispensing

The first function of the PDS7550 is the dispense of fluids thanks to the application of a consistent pressure during a time laps. It delivers repetitively a quantity of product by the simple impulsion of a push-button or a pedal.

#### ■ Pick - Up

The dispenser 7550 has also a venture system which enables to maintain a small item in suspension at the top of the gun. By one easy action of the manual command or pedal, the system aspirates. Once in position, you simply have to release the command to liberate the item.

### FEATURES



Material	Industrial metallic box
Models	0 - 7Bar et 0 - 1Bar
Dimensions	25.7 x 12.7 x 6.7 cm
Weight	1,68kg
Control	Finger and pedal
Air entry	7Bar
AC entry	110 - 220 VAC
Rate	More than 600 cycles / minutes

## AIR - PULSE : ACCESSORIES

### SYRINGE SUPPORTS

A handy and stable support which enables to hold the syringes.



### FINGER SWITCH

The finger switch replaces the pedal which is directly connected to the dispenser.



### TRAP FILTER

A trap filter for the syringe adapter which prevents the fluid to move back up in the dispenser.



### NEEDLES KIT

A selection of 50 PosiDot needles for the Air - Pulse dispenser. Possibility of a bulk packaging to get a bigger quantity.

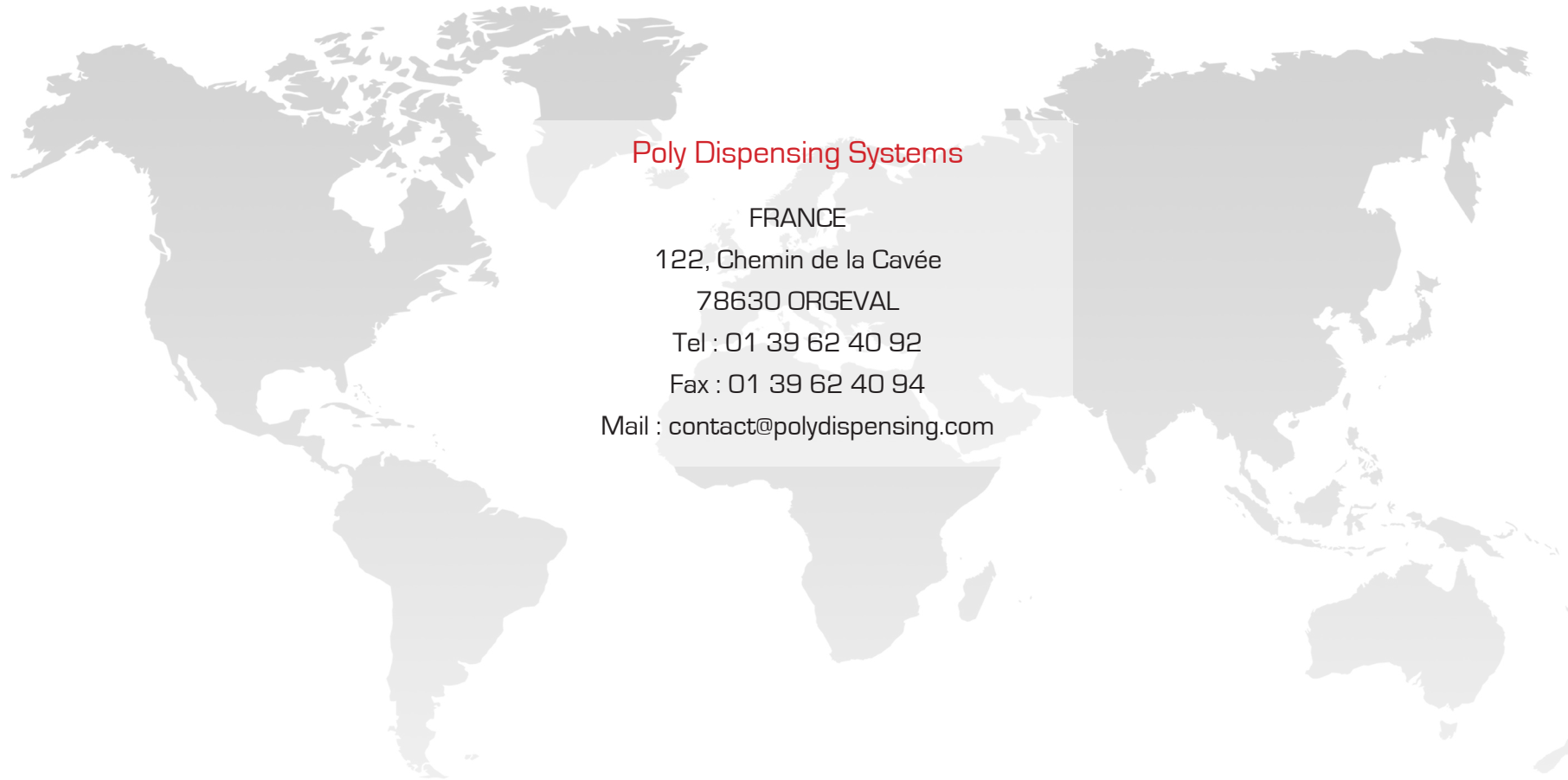


### FILTER REGULATOR

The regulator is equipped with a drying filter which purifies air. It is recommended for dispensing cyanoacrylate.



Many other accessories and consumables are available on : [www.polydispensing.com](http://www.polydispensing.com)



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The fluid dispensing being the cornerstone of numerous production chains, PDS emphasis on this specific need by proposing a wide range of innovative and efficient dispensing equipments.

French leader on this area, it specialty is to design and implement solutions to put down and dispense every type of fluid in an accurate and repeatable way during the process of assembly. Thanks to it vast field of activity and application, no doubt that PDS will know how to resolve your most complex problems of deposit and brings you the suited recommendations to optimize your production's capacities.

Persuaded that our expertise must be complete, we also supply you tools in order to prepare your fluid (mixture and degassing) and polymerize your glues (UV sunstroke). Our range of consumables (needles, syringes, static mixers etc are also considered as the best in the market.

So we provide you every type of dispensing equipments to allow you to use efficiently your fluids regardless of the viscosity : glues, greases, lubricants, pastes, solvents, silicones, inks, activators, RTV, paints.

Present in more than 20 countries in the world, performance, quality, service and technology are at the center of all our concerns.

**POLY DISPENSING SYSTEMS**

SYSTEMES DE DOSAGE INDUSTRIEL