

VPDSV 500-1500D Heated by



Sanchez
Technologies

Thermodynamics &
Core Analysis
Laboratory Instruments



General Features

This equipment is specially designed to inject in continuous flow. It's composed of 2 double screw pumps. The volume of each pump is 500 ml. Each body is heated with PID controller to inject fluid under HT.

The pump, with a synoptic (FALCON software) or with electric cabinet, can be controlled and log the values of the different parameters (pressure, volume, temperature, flow rate).

| Specifications | |
|----------------------|-----------------------|
| Volume | 500 ml for each pump |
| Pressure | 1500 bar (20 000 psi) |
| Temperature | Ambient to 200°C |
| Volume Accuracy | 10 ⁻³ ml |
| Pressure Accuracy | 0.1% FS |
| Temperature Accuracy | 0.1°C |
| Flow Rate | 0 to 1600 ml/h |

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Each pump can be:

- Independent for the following operations:
 - Constant flow
 - Constant pressure
 - Predefined volume at constant flow
- Synchronized for constant flow:
 - Push / pull
 - Push / push
 - Pull / pull
- Assembled with electro valves (in option) for continuous flow and constant pressure

One piston pump is composed of:

- One chamber in stainless steel with packing
- One calibrated piston
- One driving piston system (movements executed by a gear box with a --brushless motor and high accuracy absolute encoder

The VPDSV 500-1500D Heated has absolute pressure sensor and a safety manometer in stainless steel can be added as option.

Example of synoptic

