



Preparative HPLC Pump AIS PREP 300S

For utilization from pilot plant and up to even production scale

The dual plunger PULSE FREE HPLC pump PREP 300S covers a flow range from 3 - 300 ml / min with a pressure rating up to 200 bar (20 MPa)



The pump operates with serial plunger technique with only one suction valve and one pressure valve. The pump heads are made of stainless steel (optimally in PEEK) and come with integrated purge valve. Control elements like flow rate, minimum and maximum pressure levels can be easily controlled or changed, using the digital switches on the front panel. Furthermore, the LED display shows continuously the actual back pressure. One plunger stroke displaces 780 μ l volume. Due to computer calculated cam plates with integrated pre-compression profile the remaining pressure fluctuation is reduced to a minimum. Excellent pressure stability is achieved even with flow rates of 3 ml/min. The electronic speed controller corrects automatically the pressure dependent solvent compressibility. Error messages and the pressure levels are available through backside connectors for further control purposes. Independent of low or high flow rates and also independent of low or high pressure, the pump will deliver constantly and free of mechanical or electronically disturbances (e.g. increase in temperature concerning the motor part or control device). An optional solenoid valve makes a suction-side, variable sample load of large volumes possible. For noise reduction, the two-stage driving mechanism (mounted on a solid bottom plate) is completely isolated from the pump case by an isolation foam plate. Bearings and cam plates are permanently lubricated from an oil reservoir. All components within the pump coming in contact with liquid are placed over a collecting tray equipped with a drain pipe.

Specifications

Flow Rate:	3 - 300 ml/min
Pressure:	up to 20 MPa (200 BAR)
Pulsation:	less than 1%
Operation:	Constant Flow
Remote:	Flow Rate, Start, Stop
Safety Control:	Max. and Min. Pressure

HPLC Solutions

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